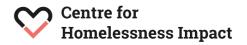


The effectiveness of interventions to improve the welfare of those experiencing and at risk of homelessness: An updated evidence and gap map

Sabina Singh and Howard White

Part 4



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About this report

The Centre for Homelessness Impact (CHI) champions the creation and use of better evidence for a world without homelessness. Our mission is to improve the lives of those experiencing homelessness by ensuring that policy, practice and funding decisions are underpinned by reliable evidence.

CHI has worked with the Campbell Collaboration, Heriot-Watt University and Queen's University Belfast to create Evidence and Gap Maps on homelessness. The Campbell Collaboration is an international research network which publishes best practice standards for systematic reviews and evidence maps. Campbell Systematic Reviews are the global repository of policy-relevant reviews and maps. All reviews and maps produced by the Centre are produced to Campbell standards and published in Campbell Systematic Reviews. Evidence and Gap Maps provide quick and efficient tools to highlight what evidence exists for specific interventions and outcomes.

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Foreword

Until recently there were no reliable evidence tools to help us identify what we know and what we don't about ending homelessness for good. Evidence was scattered around different databases, journals, websites, and in grey literature, and there is no way for decision makers to get a quick overview of the existing evidence base. This was a barrier to using evidence to improve outcomes.

To address this challenge we created two evidence and gap maps (EGMs) that capture what we know about what works and why things work or not on homelessness interventions in partnership with the Campbell Collaboration. By making relevant studies more accessible to end users, they facilitate evidence-informed decision making. Because they highlight areas of high policy relevance where evidence is lacking, EGMs can also help research funders target their resources to fill important evidence gaps faster, more cost-effectively, and in a more strategic and impactful way.

This report presents findings from the fourth update of the effectiveness map, that focuses on causal or 'what works' evidence (impact evaluations or systematic reviews). When we released the first map, we found just 221 relevant studies across the entire globe. Four years on the picture has changed significantly. This new edition contains 562 studies, a fifth (112 studies) of which were published in the past two years.

This demonstrates an encouraging growth in rigorous evidence demonstrating what works to tackle homelessness. In the UK there's also been a significant increase - from 12 to 56 - but UK-based research continues to account for just 10% of the global evidence base (72% are from the USA). While the UK is publishing increasing numbers of Randomised Control Trials, only five have been published since 2016.

This needs to change. International studies are useful, but differences in context may mean that approaches that worked elsewhere work less well, or better, here. It is therefore vital that local studies of promising interventions are carried out.

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I urge all in the homelessness field to reflect on the findings presented in the maps and join us in our efforts to improve our understanding of what works, for whom, in what circumstances. It is only by embedding reliable evidence and data analysis deep in decision-making processes and structures that we can end homelessness for good. The Centre will continue to undertake, in collaboration with other agencies, a programme of action to fill gaps in the evidence, so that over time the maps come to be used as a standard reference for evidence creation and use.

I hope that this report and related digital tools – and its annual sequels – will continue to make a significant contribution to the dialogue and decision making on homelessness in years to come and lead to more strategic use of, and investment in, reliable evidence.

Dr Ligia Teixeira

CEO, Centre for Homelessness Impact

Summary

This report presents the fourth edition of CHI's Effectiveness Map, which focuses on systematic reviews and impact evaluations of homelessness interventions. It shows relevant evidence organised into an interactive online matrix capturing where there is evidence for different categories of intervention and how they affect a range of outcomes. This fourth edition of the Effectiveness Map includes 562 studies, 168 of which were newly identified during an updated search concluding in September 2021.

The last twenty years have seen consistent growth in the number of rigorous studies which measure the impact of homelessness interventions. More recently in the United Kingdom and the United States, the What Works movement has made evidence accessible through developing user-friendly evidence tools. While homelessness has been part of this evidence revolution, it still lags behind other fields, especially with respect to the number of non-US studies and systematic reviews. More local evidence (e.g. UK-based effectiveness research) is needed to better contextualise the impact of interventions, and improvements in evidence architecture are required to facilitate use of that evidence.

Evidence and Gap Maps (EGMs) are a first step toward building the evidence architecture necessary to tackle homelessness more effectively. The first (2018), second (2019) and the third (2020) editions of this map contained 221, 260 and 394 studies respectively. This fourth (2021) edition has 562 studies, so includes an additional 168 studies compared to the 2020 edition.

The most substantial methodological change for this version of the EGM was using the innovative Cochrane Crowd platform to screen titles and abstracts. This saved the research team the time needed to go through all papers that the search identified as potentially meeting inclusion criteria. Also key was the inclusion of intervention-specific search terms in the search string which likely resulted in a large increase in the number of identified studies.

As in the previous editions of the map, this evidence is not evenly distributed in terms of geography, quality, methodology, intervention type and outcome measurement, among other variables. This report will in part address gaps and demonstrate where insights can be synthesised.

The evidence is most heavily concentrated in (1) services and outreach interventions (256 studies) followed by (2) health and social care interventions (224 studies) and (3) accommodation and accommodation-based interventions (193 studies).

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Outcomes relating to health and accommodation were by far the most commonly measured. Within intervention categories, some interventions are studied far more frequently than others. For instance, while there are many evaluations of Housing First, there are only two studies in which hostels have been evaluated. The gaps in the EGM indicate a need for more primary studies in those areas.

But even where there is evidence, critical appraisals of the research indicate that we have low confidence in study findings of the majority of studies. The critical appraisal used employs a 'weakest link in the chain' principle, meaning one critical weakness reduces the credibility of the study as a whole. This is a conservative way of assessing the quality of primary studies. The low confidence in most studies largely results from the lack of reporting power calculations and high levels of attrition amongst study participants.

The most comprehensive systematic review of the sector to date reports that many interventions are effective in improving housing stability (Munthe-Kaas, Berg and Blaasvær 2018). But not everything works, and not everything is equally effective. The Effectiveness Map shows that very few high-quality evaluations exist in the UK. The most critical gap in homelessness research is a lack of evidence of the cost-effectiveness of interventions (i.e. how much bang for our buck we get from interventions). This type of evidence is crucial for policymakers to decide how to allocate scarce resources.

Previous editions of the map demonstrated that the interventions for which most evidence existed included accommodation-based interventions (e.g. Housing First, hostels), case management and substance use interventions. CHI consequently commissioned systematic reviews on these three areas over the past two years, having published the review into accommodation-based interventions – the other two reviews will be published in 2022. CHI recently commissioned one further review into psychosocial interventions (e.g. behavioural therapies) for which there is sufficient albeit less evidence. Interventions relating to legislation, communication, finance and prevention are priority gaps in the evidence base (see Table 3).

Chapter 1 The Global Evidence Base for Effectiveness Research into Homelessness Interventions

Introduction

An Evidence and Gap Map (EGM) is a visual representation of the available and relevant evidence for a particular sector. The map shows which interventions and outcomes have been more extensively reported in research and where there are gaps in the evidence base. The EGM also shows how much confidence can be placed in reported findings.

The map exclusively contains research which evaluates the impact of homelessness interventions. CHI, in partnership with the Campbell Collaboration, has built two EGMs for homelessness assessing a) what works in the field of homelessness, which describes the effectiveness of interventions, and b) how interventions are implemented, exploring barriers and facilitators for successful implementation. The Effectiveness Map, which is the focus of this report, contains studies which evaluate how effective interventions are at improving a range of outcomes. It contains impact evaluations (i.e. quantitative research) or systematic reviews of impact evaluations. The other map, named the Implementation Map (discussed in detail in our Evidence and Gap Maps Implementation Issues Report), contains qualitative research including process evaluations which demonstrates why interventions might be effective or not. Studies with mixed methods may appear in both maps. Both Maps are updated annually.

An EGM is a table or matrix which provides a visual presentation of the evidence. In the Effectiveness Map the rows are intervention categories (e.g. prevention, employment) and the columns are outcome categories (e.g. health, housing stability). Both intervention categories and outcome categories are broken down further into sub-categories. For example, the housing stability outcome category is split into two further subcategories of 1) accommodation status and 2) satisfaction with housing.

The Effectiveness Map captures additional elements which describe a study such as study design, geographical location and population characteristics. These characteristics can be applied as 'filters' in the tool so that only studies which apply to the specific groups chosen are shown in the map.

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The online versions of the map are interactive so that users may click on entries to see a list of studies for any cell in the map. Clicking on study names shows the database record for the study which includes the URL to link to the study itself.

A geographical map detailing which regions, countries and cities the evidence base originate from is also available via our Evidence Finder. The Evidence Finder is built on data from the EGMs and provides a different way of looking at the evidence base.

What evidence is included in this map?

The Effectiveness Map contains all available evidence on the effectiveness of interventions in improving the lives of those who experience, or are at risk of experiencing, homelessness. The map shows both impact evaluations, and systematic reviews of impact evaluations. Impact evaluations are studies which use quantitative approaches to measure the difference an intervention made to outcomes like housing stability. Systematic reviews are studies which summarise all available relevant evidence for a particular issue or question, using a systematic approach to identify, codify, and summarise all relevant studies in a topic. Systematic reviews which summarise evidence from impact evaluations are called 'effectiveness reviews'.

The Effectiveness EGM contains only studies which employ one of the following methodologies: randomised control trials (RCTs), non-experimental designs, before vs after designs and systematic reviews. A RCT is the gold standard for impact evaluation. Where randomisation is not feasible, there are non-experimental approaches which use statistical methods to try to ensure the comparability of the comparison group. These approaches have technical names like 'propensity score matching' and 'regression discontinuity designs'. Before vs after designs are the most basic form of evaluation included in the map, whereby outcomes are measured before and after an intervention has been implemented. The Campbell evidence standards classify these different methods by the quality of evidence they provide.

		Outcome	Outcome						
		Capabilities and We	fibeing		Cost				
		Education, skills and self care	Overall well being and quality of life	Social connectednes and social networks (including loneliness)	Cost effectiveness	Cost per perficipant	Savings		
	Legal advice								
	Outreach		••	4		٠			
	Psychologically informed environments								
	Reconnection of rough sleepors								

Fig. 1 Snapshot of the Homelessness Map (Effectiveness)

Methodology

This is the fourth update of the Effectiveness Map. The scope of the map, as captured in the Population, Intervention, Outcome and Study Design (PIOS), remains the same as previous editions. The original protocol for the development of the map is here. In the third version of the Effectiveness Map, we introduced some changes to the typology of interventions. Download the report for the third version.

The database search was updated using the same search strategy as previously, supplemented by some intervention-specific search terms. The search ended in September 2021. These updated search strings are available in Appendix 1. We also ran a machine learning search in EPPI Reviewer, which searches Microsoft Academic. The database search results were merged and deduplicated.

An innovation was introduced at the screening stage. For this iteration of the Effectiveness Map, we collaborated with Cochrane to use the Cochrane Crowd platform to crowdsource screening of titles and abstracts retrieved from machine learning and database searches.

The time and labour saved from the screening of title and abstracts allowed a more comprehensive manual search of websites and other grey literature that resulted in an additional set of records that would otherwise not make it to the map. Information specialists and evidence synthesis specialists often acknowledge the limitations of database searches and the need to survey grey literature for a comprehensive assessment of the body of evidence.

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Systematic search of Grey Literature

Intervention-specific search terms combined with population and study design search terms resulted in a large number of newly identified studies compared to previous updates to the map. It implies that the systematic search of grey literature holds potential for identifying studies which may not be covered in academic databases.

We used Google as the starting point to identify eligible records using the intervention-specific search strings (Appendix 1) Boolean operators AND, and OR were used in the search strings. These search strings included synonyms of intervention categories combined with population and study design using the Boolean operator AND. Google Scholar was also used with relatively simple search terms such as 'Homeless "Critical Time Intervention" Evaluation' to identify eligible studies. The searches in Google were conducted by the Campbell team in India and Germany and all the screeners conducted searches in incognito mode/private window depending on the browsers used. The search dates and search engine page numbers on which the studies appeared were noted meticulously. These eligible records led us to various institutional/organisational websites dedicated to the issues of homelessness such as Family & Community Services (FACS) for various states in Australia. We recorded the domain names of websites which indicated the countries where the organisations and institutions were located and the number of records found, screened, and included for each site.

In addition to the searching and screening of websites we used snowballing to identify further relevant websites which were then searched in the same way.

In the above cases all eligible records were checked for duplicates in EPPI Reviewer and the eligible, non-duplicate studies were imported in EPPI Reviewer for full-text screening. The list of websites searched is given in the Appendix 2.

We also identified some of the journals with studies on Homelessness. Hand searches (online screening) of all the issues from the past five years of the identified journals was carried out. The European Journal of Homelessness is a journal by FEANTSA and was screened while we screened FEANTSA's website. The list of journals and dates of searches are given as a table in Appendix 3. Citations of selected included records were also screened to identify eligible studies.

Screening at Title and Abstract

Cochrane Crowd was used to crowdsource screening of papers at title and abstract. Through Cochrane Crowd, members of the research community and general public could screen papers, allowing us to screen at scale and pace. Potential screeners needed to pass a detailed training module which required about 30 minutes to complete. Feedback from the CHI team was sought regarding the content, and necessary revisions were done. The training module was accompanied by a practice test with 12 records to ensure the screeners were clear about the eligibility criteria for the map. The solutions/ responses to practice exercises also had a description to facilitate a better understanding of the PIOS framework used for the map. The screeners had to correctly screen a minimum of nine records (75 per cent) to be eligible to access the live task of screening on title and abstract.

A total of 3,143 records were identified from machine learning and database searches. Two duplicate records were removed before screening. The records were available for screening from June 15, 2021 on Cochrane's website and it took about a week for the crowd screeners to screen these records.

Cochrane crowd uses 'agreement algorithm' to screen. Each record gets screened by four screeners. Thus, a total of 12,788 classifications were made for 3,141 records. As many as 42 researchers from 15 countries screened these records.

A total of 2,825 records were excluded at this stage. The number of records to be screened at full-text stage was 316 (with 311 records classified as Possibly relevant and five records as unclear/Not enough information). On account of lack or clarity of information, these five records were also imported to Eppi reviewer for screening at full-text stage.

In addition, 686 records were identified through systematic searching of grey literature and other methods (hand searching journals, and citation tracking) as described earlier in the report. These records were searched in the Eppi reviewer for duplicates. After removing duplicates, 118 records were assessed for eligibility at full-text stage.

Full-text screening

All 316 records identified via database and Machine Learning searches were imported to reference management software Mendeley and it de-duplicated three records. The .ris files were then imported to EPPI Reviewer software for full-text screening of 313 records. Further, checks for duplicates were done. The database searches also had some records listed at U.S. National Library of Medicine resource 'ClinicalTrials.gov'. These trials listed at clinicaltrials.gov were screened only if the most complete and latest study resulting from these trials was not already on the map. As the existing map already had some of the studies resulting from these trials, these trials were not included for screening. e.g. the clinical trial titled 'Intervention to Improve Expression of End of Life Preferences for Homeless Persons (SELPH) with ClinicalTrials.gov Identifier: NCT00546884 already existed on the map as Song (2010). Such records were thus not included. These duplicate checks (23 studies) resulted in 278 records that were screened by two team members from Campbell who screened the studies independently. The screening decisions were compared by using comparison reports feature in EPPI

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Reviewer. The disagreements were resolved by comparing notes and discussion. An arbitrator was approached in case no agreement was achieved, and the arbitrator's decision was taken as final.

Studies identified through other methods (118 studies) were also uploaded to EPPI Reviewer software for full screening, following the same procedure described above with 65 studies excluded at full-text screening. Sixty-five studies were excluded on reasons of design and mostly involved process evaluations or qualitative studies of programmes catering to those experiencing homelessness or likely to experience homelessness.

The full-text screening resulted in the inclusion of 167 studies (114 from database and Machine Learning searches, and 53 from other sources). The reasons for exclusion at full-text screening are given in the PRISMA flowchart. Data extraction for the current update was thus done from 167 studies obtained through machine learning, database searches and other studies identified from website searches, searches using Boolean operators and intervention terms in Google, hand searches/screening of journal issues of the last five years, and scanning the references of selected included records.

Data Extraction and critical appraisal of included studies

The data extraction was done by two independent researchers from the Campbell team as per the intervention-outcome framework developed for this EGM. The data extraction was compared for differences and disagreements were resolved by discussion. An arbitrator was approached in case no agreement was achieved, and the arbitrator's decision was taken as final. Separate checklists for impact evaluations and systematic reviews were used to assess the confidence in the findings of studies.

The PRISMA flowchart (Figure 2) depicts the earlier number of studies in the map and those found in the current update. Collectively, following from the previous edition, the map has 562 studies with 492 impact evaluations and 70 systematic reviews.

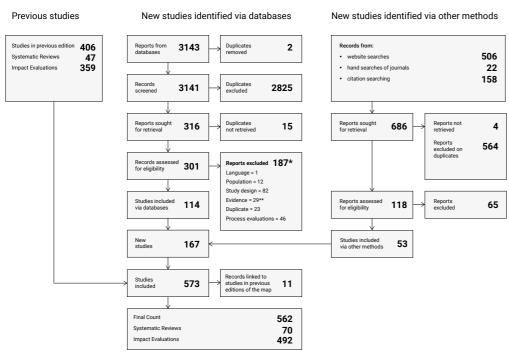


Figure 2: PRISMA flowchart

*six records were coded under multiple categories, meaning the sum of the subcateogires is not equal to records excluded
**Exclusion on evidence implies studies that were reviews that do not qualify as systematic reviews, or
reviews that are not reviews of effectiveness studies, commentaries or letters to editors etc.

An overview of the Effectiveness Map

There is a substantial body of evidence on the effectiveness of interventions for people experiencing or at risk of experiencing homelessness. The latest version of the map contains 562 studies, compared to 221 studies in the first edition (2018), 260 in the second edition (2019) and 394 in the third edition. This constitutes an increase in reports of 38% compared to the previous edition. The 562 studies comprise 70 systematic reviews and 492 primary studies, but this evidence is unevenly spread by intervention category and geography.

Services and outreach, health and social care and accommodation-based services are the most commonly evaluated full interventions.

We categorised the studies in nine intervention categories (Legislation, Prevention, Services and Outreach, Accommodation and accommodation-based services. Employment, Health and social care, Education and skills, Communications and Financing) and 43 sub-categories. More details on the definitions of each of these categories can be found in Appendix 4.

The largest intervention categories are 'services and outreach' and access to 'health and social care' with 256 studies and 224 studies respectively. The third largest category is 'accommodation and accommodation-based services' with 193 studies (see Figure 3). Other categories have only a few studies. For instance, Legislation has only four studies and Communication just three.

The coverage for sub-categories is also very uneven. Within accommodation and accommodation-based services, Housing First, has 89 studies, while there are very few studies for other sub-intervention categories such as hostels (2), shelters (15) and rapid rehousing (16).

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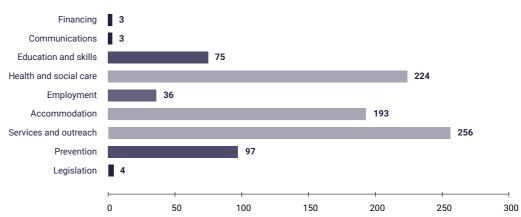


Figure 3: Included studies by intervention type

Note: These numbers do not add up as a study may have more than one intervention.

Randomised controlled trials make up almost half of studies

Of the 481 primary studies, 268 (approx. 56%) are RCTs, which demonstrate the feasibility of this evaluation method in the sector (see Figure 4). The figure also suggests that RCTs constitute about 49% of all the included studies (systematic reviews included) on the map. The proportion of systematic reviews among total included studies was 13%, while that of 'before and after' designs and non-experimental design with comparison groups represented 24% and 15%, respectively.

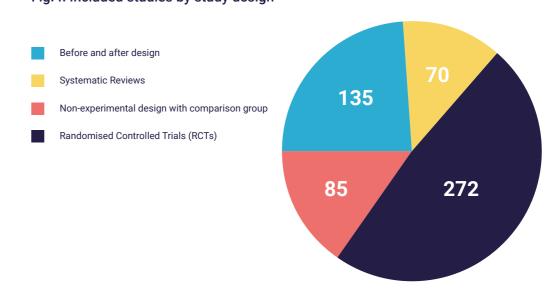


Fig.4: Included studies by study design

The evidence base is predominantly from North America

The evidence base is predominantly from North America. About 89 per cent of studies (504) refer to interventions in North America (Table 1), compared to a mere 31 studies from East Asia and Pacific and 87 from Europe and Central Asia. There are 56 studies from the UK included in this version of the map, 23 of which are systematic reviews and 33 are primary studies.

Table 1 Number of studies for selected countries

Country	Primary studies	Systematic review	Total	Share total studies
Australia	12	14	26	4.62%
Canada	72	27	99	17.6%
Netherlands	9	7	16	2.84%
United Kingdom	33	23	56	9.96%
United States	343	62	405	72.06%

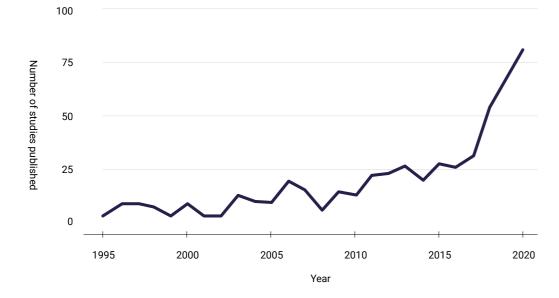
Note: The figures add up to over 100% as studies are sometimes conducted in more than one location or refer to studies in more than one location.

Evidence-based policy and practice is not a blueprint approach. European countries, including the UK, should learn from the North American experience but not simply copy it. The map demonstrates the need for more primary studies of promising interventions in different contexts across Europe. The map also shows that rigorous impact evaluations of these programmes are possible, including RCTSs.

The number of studies published each year is increasing rapidly

The number of studies published each year is increasing rapidly. Almost triple the number of studies were published between 2015-2020 than were published between 2010-2014. This is starkly illustrated by the fact that 13 studies were published in 2010, while 81 were published in 2020.

Fig 5: Included studies by year



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Table 2 Number of studies by time period

Period	No. of included studies
1990-94	5
1995-99	29
2000-04	37
2005-09	63
2010-14	104
2015-20	286

Details into how often intervention types are studied and how often outcomes are measured

Table 3 shows the aggregate map, showing the intervention-outcome matrix. Areas with a high level of evidence (50 or more studies) are found under health and social care, services and outreach and accommodation and accommodation-based services with the main outcomes being housing stability, health, and capabilities and well-being. Other areas of the map, notably in legislation, communication and financing are largely empty.

Table 3. Aggregate evidence and gap map

Intervention categories	Capabilities and Wellbeing	Cost	Crime and justice	Employment and income	Health	Housing stability	Public attitudes and engagement
Legislation	1	1	0	1	1	2	0
Prevention	37	17	15	26	59	65	0
Services and outreach	101	45	30	63	204	155	0
Accommodation and accommodation-based services	83	39	27	50	136	129	0
Employment	13	4	5	21	30	21	0
Health and social care	76	33	19	35	214	72	0
Education and skills	48	5	13	14	55	18	0
Communications	1	2	0	0	2	0	1
Financing	1	1	1	1	1	3	0

The sub-categories for interventions and outcomes which are the most heavily populated cells on the map are the following:

There are many studies to the effect of physical and mental health interventions on outcomes including mental health status (77 studies), substance use (63 studies), physical health and nutrition (53 studies), access to mainstream services (57 studies) and housing stability (49 studies).

There are many studies evaluating addiction support which regularly measure substance use (99 studies), mental health (49 studies) and accommodation status (44 studies).

There is also a good deal of evidence for case management interventions across a range of outcomes notably accommodation status (112 studies), mental health (93 studies), substance use (92 studies), access to mainstream health care (53 studies) and physical health and nutrition (48 studies). There is also a reasonable amount of evidence regarding impact on overall wellbeing (46 studies) and employment status (40 studies) for case management interventions.

A similar pattern is observed for Housing First studies, with papers regularly measuring housing stability (58 studies), mental health (47 studies) and substance abuse (44 studies). There are also 29 studies measuring access to mainstream health and 24 measuring physical health and nutrition, however few studies measure the impact of Housing First on employment status (10 studies).

Studies evaluating social housing measure its impact on housing stability (43 studies), mental health (31 studies), substance abuse (27 studies), mainstream health (24 studies) and physical health and nutrition (24 studies).

For which interventions are there gaps in our understanding of what works?

There are many blank cells in the map, indicating that studies have not evaluated interventions for impact for given outcomes. The largest gaps are for legislation, financing and communication. There is also a lack of evidence on prevention and employment. There are few studies related to the justice indicators, public attitudes and perception, and cost.

Another striking gap is the relative lack of systematic reviews. In health it is sometimes the case that there are more reviews on a subject than there are primary studies. But the homelessness map shows many areas in which there is a wealth of primary studies (though mainly of North American evidence) which have not been subject to detailed review.

More detailed analysis of gaps will require intervention and outcome-specific analysis. For example, there are several studies of Critical Time Interventions but nearly all these studies refer to transitions from mental health facilities or analyse mental health outcomes. There is a much smaller evidence base for those leaving prison or the military setting.

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We use checklists and a 'weakest link in the chain' principle to assess confidence in studies

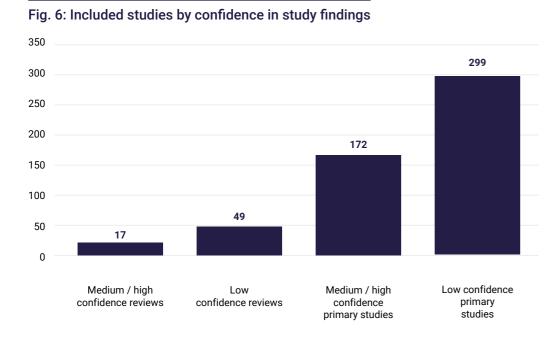
As mentioned in the methodology section, two different checklists were used to assess the confidence in study findings of the primary studies and systematic reviews

The tool for primary studies has seven items which relate to 1) study design, 2) blinding, 3) power calculations, 4) attrition, 5) description of the intervention, 6) outcome definition, and 7) baseline balance. A fuller description of these items is given in the technical appendix. Each of these seven items is rated as implying high, medium or low confidence in study findings. Overall quality is assessed using the 'weakest link in the chain' principle: our confidence in study findings can only be as high as the lowest rating given to any of the critical items (which are numbers 1, 4, 6 and 7).

For systematic reviews we use AMSTAR 2 ('Assessing the Methodological Quality of Systematic Reviews'). This checklist has 16 items which cover: 1) PICO in inclusion criteria, 2) ex ante protocol, 3) rationale for included study designs, 4) comprehensive literature search, 5) duplicate screening, 6) duplicate data extraction, 7) list of excluded studies with justification, 8) adequate description of included studies, 9) adequate risk of bias assessment, 10) report sources of funding, 11) appropriate use of meta-analysis, 12) risk of bias assessment for meta-analysis, 13) allowance for risk of bias in discussing findings, 14) analysis of heterogeneity, 15) analysis of publication bias, and 16) report conflicts of interest. AMSTAR-2 checklist also has some critical indicators (Sr. no. 2,4,7,9,11,13 and 15) that determine whether we can place a high confidence in the findings of a systematic review. As with impact evaluations we use the 'weakest link in the chain' principle meaning a single low rating in just one of these critical indicators leads to a systematic review being classified as one with low confidence.

Most studies are assessed as low confidence

An assessment of the confidence in study findings of impact evaluations suggests that as many as 299 (61 per cent) studies were assessed to have low confidence in their findings (Figure 6).



For primary studies, attrition was the main reason for most studies to qualify as those with low confidence. Blinding was also not common in these studies and reporting of power calculations can be greatly improved. (Fig 7)

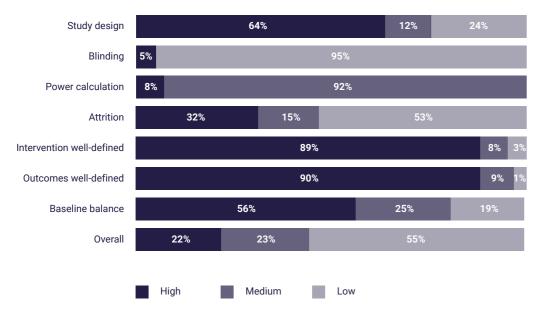


Fig 7. Confidence in primary studies, detailed

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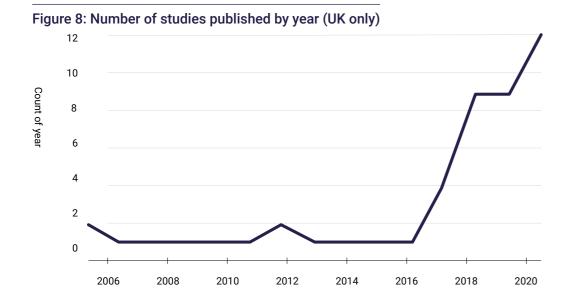
Most systematic reviews lacked on the list of excluded studies while some could not conduct meta-analysis due to heterogeneity in the findings of included studies. As assessed using AMSTAR-2, we could place low confidence in the findings of 49 systematic reviews (about 70 percent). The systematic reviews that are not completed yet and at the protocol stage are not assessed for study quality. The main reason for most studies to qualify as low confidence was due to a low score in at least one of the critical factors in the AMSTAR checklist (Q.No. 2,4,7, 9, 11, 13 and 15). For a systematic review to qualify as with high or moderate confidence in findings, not only the rating has to be high at all critical factors but also it may have none/at least one non-critical weakness and more than one non-critical weakness respectively.

Chapter 2 The Evidence Base for Effectiveness Research in the UK

This fourth edition of the EGM has a total of 56 studies conducted in the UK. Thirty-three studies are impact evaluations, of which 13 are RCTs, nine had non-experimental designs with a comparison group and 11 had a before and after design. The characteristics of all the impact evaluations conducted in the UK such as location, population, intervention, study design, outcomes and confidence in the findings of studies are given in the Appendix 6. There are 23 systematic reviews that include studies from the UK.

Increasing numbers of studies are being published in the UK

The number of effectiveness studies published in the UK has increased greatly in the past five years. Prior to 2016, a maximum of two studies had been published each year. Between 2016-2020 an average of 9 studies were published each year. Systematic reviews account for the majority of these newer publications, with 19 published in the past four years. Other study design types are also increasing in number, however the number of RCTs being published in the UK remains low: only five RCTs have been published between 2016-2020, with none being published in 2020.



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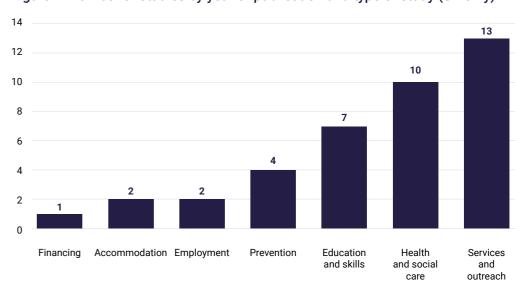


Figure 9: Number of studies by year of publication and type of study (UK only)

A third of impact evaluations conducted in the UK were assessed as medium/high confidence.

Assessment of confidence in the findings of impact evaluations suggests that there are 20 studies where we could place low confidence in their findings, while 10 impact evaluations were assessed to be of medium/high confidence. Three studies were ongoing for which no assessment was done (Fig. 10).

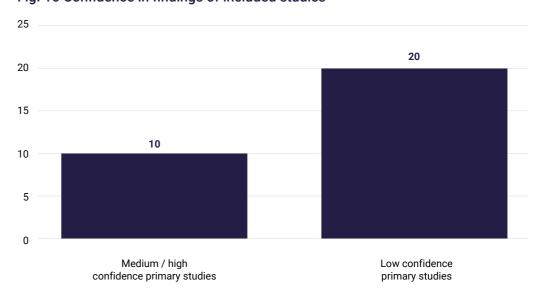


Fig. 10 Confidence in findings of included studies

Of the ten impact evaluations which were assessed to be of high confidence, five

were published between 2016-2021. Eight focused on people with a history of mental illness, while the remaining two focused on physical health interventions (tuberculosis and plaque management). Five studies focused on services and outreach, three of which evaluated case management interventions. Two studies focused on the transition from prison for people with mental illness, one of which evaluated Critical Time Intervention (Hopkin, 2016) and the other focused on supported housing models (McInnes, 2021).

Crucially, all studies focused on one of three intervention types: health and social care, services and outreach or accommodation-based services. This leaves large gaps in our understanding of effective interventions in a UK context. Box 1 includes brief descriptions of each of these studies.

Box 1:

Brief description of primary studies in the UK with high/medium confidence

Marshall et al. (1995) conducted the first high/medium confidence study in the UK. They evaluated case management services for long term mental health disorders using an RCT and found no impact on any measured outcomes including number of support needs, quality of life, employment status and severity of symptoms.

Aldridge et al. (2014) conducted a cluster randomised controlled trial that found no evidence for peer educators increasing the uptake of Mobile X-Ray Units for Tuberculosis screening when comparing it with the current practice of hostel staff encouraging this type of screening.

Howard et al. (2010) conducted a pilot patient-preference randomised controlled trial (PP-RCT) and found that women's crisis houses did not result in improved outcomes compared to traditional psychiatric wards for women, including no difference in symptoms, functioning, perceived coercion, quality of life and cost.

Hopkin (2016) conducted a randomised controlled trial that found that people receiving Critical Time Intervention were significantly more likely to have had contact with any community mental health professional compared to participants in the TAU group. CTI participants were also significantly more likely to have been allocated a care coordinator and made contact with their care coordinator relative to those in the TAU group. These findings were at the six week follow up and were not maintained at six and 12 months. However, this study also observed a higher recidivism rate for participants in the short term.

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Killaspy et al. (2019) ran a feasibility study to understand the potential of evaluating different models of mental health supported accommodation - specifically floating outreach vs supported housing. They found that it was unfeasible to conduct such a study due to an inability to recruit participants due to staff and service user preferences for certain types of supported accommodation or for specific services.

MacInnes et al. (2021) used a prospective cohort design and found that the RESET intervention, aimed at supporting prisoners with mental health needs for 12 weeks after discharge, resulted in approximately twice as many days in secure housing as the comparison group in the short and long term.

Murphy et al. (2020) found that the Tackling Multiple Disadvantage (TMD) project which supports people experiencing homelessness with multiple and complex needs into training or employment led to substantially better employment outcomes compared to similar projects.

Paisi et al. (2019) used a quasi-experimental, one-group pre-test-post-test study with follow-up at one and two months and found no significant impact of peer education in managing plaque and oral hygiene.

Craig et al (2004) ran a randomised controlled trial to test the effectiveness of specialised care for early psychosis (The Lambeth Early Onset Team). They found some evidence that shows that a team delivering specialised care for patients with early psychosis is superior to standard care for maintaining contact with professionals and for reducing readmissions to hospitals.

Tempier et al (2012) built on the sample used by Craig et al (2004) to run a randomised controlled trial offering Assertive Community Treatment which is often used to improve recovery and housing outcomes. They found that patients receiving specialized care reported having more extensive social networks and achieved superior clinical outcomes at 18 months, and these outcomes were associated with network size.

More details about these interventions are offered in Table 4. All the studies from the UK are described in Appendix 6.

Impact evaluations have been conducted for some interventions but not others

As can be shown by the descriptions above, the highest number of impact evaluations in the UK are for services and outreach interventions, followed by health and social care, and education and skills interventions. The number of impact evaluations for employment, financing and accommodation-based interventions is very low. It may, however, be noted that a single study is sometimes coded under two intervention categories.

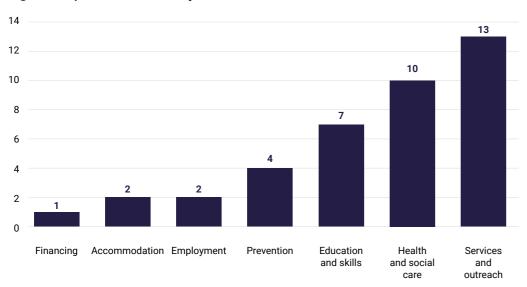


Fig. 11: Impact evaluations by intervention in the UK

Different study designs are used to evaluate different intervention types

The distribution of included studies by intervention and study design suggests that the effectiveness of services and outreach interventions has mostly been assessed using RCTs. There are no RCTs for certain categories of interventions such as prevention, employment and financing. The EGM does not have any studies on legislation and communication interventions in the UK and thus indicates a gap area. The effectiveness of education and skills interventions in the UK included in this map are mostly assessed using before and after study designs and only one RCT is in progress.

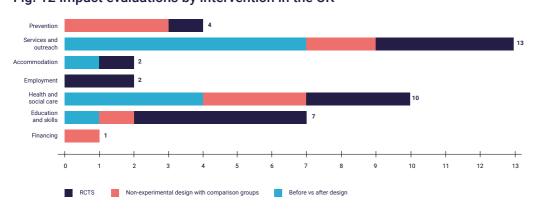


Fig. 12 Impact evaluations by intervention in the UK

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Studies focus on subgroups of people with mental illness and substance use issues more than others

Studies focus principally on some subgroups of populations experiencing homelessness more than other subgroups. For example, there are not many studies focusing on families with children, veterans/ex-services, elderly, women and girls, young people (under the age of 18 years). It appears that relatively more studies from the UK are on those suffering from mental illness and those with problematic substance use (Fig.13).

The distribution of studies by intervention categories and population sub-groups suggests that the highest number of included studies in the map are service and outreach interventions for people with, or have a history of, mental illness. An equal number of studies focus on people with alcohol or drug issues for both services and outreach, and health and social care interventions.

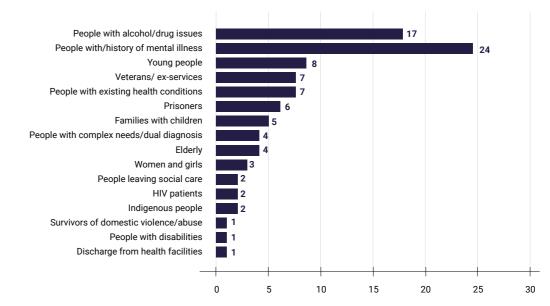


Fig. 13 Included UK studies by population sub-groups

Studies measured the impact of interventions on some outcomes more than others

The distribution of included studies by intervention and outcome categories suggests that included studies in the map had outcomes related to health and capabilities and well-being corresponding to services and outreach interventions. The outcomes related to capabilities and well-being were also observed for health and social care, education and skills, accommodation and accommodation-based services and financing interventions. Similarly, housing stability was another outcome category for prevention, services and outreach, health and social care and financing intervention categories. Only one study had crime and justice outcomes corresponding to services and outreach intervention (Fig.14).



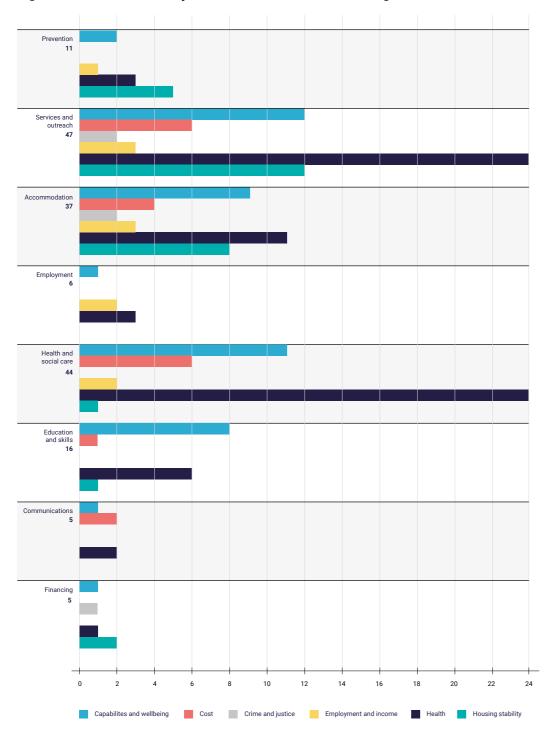


Table 4.Medium and High-Confidence Impact evaluations conducted in the United Kingdom

Author	Title	Population	Intervention	Outcome	City
Aldridge (2014)	Impact of peer educators on uptake of mobile x-ray tuberculosis screening at homeless hostels: a cluster randomised controlled trial	• Other	Health and social care • Health services (physical and mental)	Health • Physical health and nutrition status	London (England)
Craig (2004)	The Lambeth Early Onset (LEO) Team: randomised controlled trial of the effectiveness of specialised care for early psychosis	 People with/history of mental illness 	Services and outreach • Outreach	Health • Access to mainstream health care • Mental health status	London (England)
Hopkin (2016)	The Impact of the Critical Time for People with Severe Mental Illness in the Transition from Prison to the Community	Ex-prisonersPeople with/history of mental illness	Services and outreach • Case management (inc. Critical Time)	Health • Access to mainstream health care	London (England)
Howard (2010)	Effectiveness and cost-effectiveness of admissions to women's crisis houses compared with traditional psychiatric wards: pilot patient-preference randomised controlled trial	 People with/history of mental illness Women and girls 	Health and social care • Health services (physical and mental)	Capabilities and Wellbeing Overall well being and quality of life Cost Cost effectiveness Cost per participant Health Mental health status	London (England)
Killaspy (2019)	Feasibility randomised trial comparing two forms of mental health supported accommodation (supported housing and floating outreach); a component of the QuEST (Quality and Effectiveness of Supported Tenancies) Study	People with/history of mental illness	Accommodation and accommodation-based services • Private Rental Sector (with and without support) • Social housing with or without support	Capabilities and Wellbeing Overall well being and quality of life Health Mental health status	London and Cheltenham (England)
Marshall (1995)	Social services case-management for long-term mental disorders: a randomised controlled trial	People with/history of mental illness	Services and outreach • Case management (inc. Critical Time)	Capabilities and Wellbeing • Education, skills and self care • Overall well being and quality of life • Social connectedness and social networks (including loneliness) Health • Mental health status	London (England)

Author	Title	Population	Intervention	Outcome	City
MacInnes (2021)	Supporting prisoners with mental health needs in the transition to RESETtle in the community: the RESET study	Ex-prisoners People with/history of mental illness	Prevention • Discharges Accommodation and accommodation-based services • Social housing with or without support	Housing stability • Accommodation status	Kent and London (England)
Murphy (2017)	Tackling Multiple Disadvantage: Year 1 Interim Report	People with complex needs/dual diagnosis	Prevention • Welfare and Housing support Employment • Mentoring, coaching and in-work support	Capabilities and Wellbeing • Education, skills and self care Employment and income • Employment status Health • Mental health status	London (England)
Paisi (2019)	Management of plaque in people experiencing homelessness using 'peer education': a pilot study	Other • [Info] Homeless	Services and outreach • In-kind support (exc. food) Health and social care • Health services (physica and mental) Education and skills • Life and social skills training	Capabilities and Wellbeing • Education, skills and self care Health • Physical health and nutrition status	Plymouth (England)
Tempier (2012)	Does Assertive Community Outreach Improve Social Support? Results From the Lambeth Study of Early-Episode Psychosis	People with/history of mental illness	Services and outreach • Outreach	Capabilities and Wellbeing • Social connectedness and social networks (including loneliness) Health • Mental health status	London (England)

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Appendices

Appendix 1 Search strings for each intervention category in the EGM

1. Legislation

Housing/Homelessness Legislation

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Housing/Homelessness Legislation)

1.2 Welfare benefits

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Welfare benefits OR Rent subsidies OR housing vouchers OR legal assistance)

1.3 Health and social care legislation

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Health and social care legislation OR Medicaid OR Medicare

2. Prevention

2.1 Welfare and Housing Support

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Housing OR Housing Schemes OR Homelessness Prevention OR Welfare schemes OR welfare benefits OR Rent subsidies OR housing vouchers OR disability benefits OR rental assistance OR housing options OR rent supplements)

2.2 Housing supply

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Housing OR Housing Schemes OR Housing Programmes)

2.3 Family mediation and conciliation

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Family mediation and conciliation OR Family based therapy OR ecologically based family therapy OR motivational enhancement therapy OR community reinforcement approach OR family resilience programme OR Relationship-based intervention OR family contact)

2.4 Landlord-tenant mediation

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Landlord-tenant mediation OR Neighbour mediation)

2.5 Discharge interventions

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Discharge interventions OR Reentry OR prisoner re-entry OR transitional programme OR transitional supportive housing OR reintegration programme OR independent living OR independent housing OR community housing OR respite care OR medical respite OR homeless patient aligned care OR community follow up OR progressive independence model OR community care OR reintegration OR transitional programmes OR progressive independence model

3. Services and Outreach

3.1 and 3.3

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Houseless OR Homeless OR Roofless OR Rough sleep*) AND (AND (Direct feeding OR Soup Runs OR Malnutrition interventions OR Day Centre intervention)

3.2

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (in-kind support interventions OR Non-Food items support OR Hygiene products OR Clothing or Household items supply) AND (Homeless Or Houseless OR Roofless OR People experiencing homelessness OR Rough sleepers)

3.4 (Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND

(Outreach access and recover OR assertive outreach OR street team OR multidisciplinary street team OR intensive outreach OR community prevention)

3.5 and 3.7 Reconnection and CTI done (no need to run again)

3.6 (Effectiveness OR impact evaluation OR Implementation OR Barriers and

facilitators OR Process Evaluation OR Evaluation) AND

(Assets-based programmes OR strength-based programmes OR Assets-based interventions OR strength-based interventions OR psychologically informed environments)

OR strength profiling)

- 3.8 (Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (residential treatment OR non residential treatment OR specialist integrated care OR coordination of care OR intergovernmental OR integrated housing services)
- 3.9 (Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Veterinary services for pets of homeless OR Interventions for pets of homeless OR pet care interventions) AND (Homeless OR houseless OR Rough sleepers OR pets of Rough sleepers)
- 3.10 (Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Legal advice OR legal assistance OR limited legal assistance OR unbundled legal assistance OR legal interventions) AND (Homeless Or Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

4. Accommodation and accommodation-based services

4.1-4.4

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Accommodation and accommodation-based services OR Shelters OR Hostels OR Temporary Accommodation OR Host Homes OR Housing Placement OR Housing support) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

4.5 Rapid Rehousing

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Rapid rehousing) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

4.6 Housing First

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Housing First) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

4.7 Social Housing (with or without support)

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Social Housing OR

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Supportive housing OR Scattered-site housing OR permanent supportive housing OR abstinence contingent housing OR parallel housing services OR chronic care model OR community housing OR Residential treatment OR Rocking chair therapy OR congregate housing OR group home placements OR personalised housing OR onsite care)

4.8 Private rental sector (with or without support)

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Independent housing OR apartment living OR independent housing OR independent living OR community housing) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

4.9 Continuum of care

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Continuum of care OR continuity of care) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

5. Employment

5.1 Mentoring, coaching and in-work support

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Employment interventions OR Mentoring OR Coaching OR In-Work Support OR Individual Placement and Support OR Lifestyle coaching, OR employment pilot) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

5.2 Flexible employment

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Employment interventions OR Flexible employment) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

5.3 Vocational training and unpaid work experiences

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Employment interventions OR Vocational training OR unpaid work experiences OR

Work therapy OR therapeutic workplace OR Work skills training OR vocational rehabilitation OR housing and work support OR work support OR Pro-bono work) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers)

5.4 Paid work experiences

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Employment interventions OR Paid work experiences OR Paid internship)

AND (Homeless OR Houseless or Roofless OR People experiencing homelessness

OR Rough sleeper)

6. Health and Social care

6.1 Physical and mental health

6.1.1

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Health and Social care interventions OR Physical Health Services OR sexual health OR sexual risk behaviors OR HIV treatment OR tuberculosis OR hepatitis OR influenza OR cancer screening OR smoking cessation OR risk detection OR medical respite OR consultation model OR adherence to medication OR onsite care OR referral primary medical care)

6.1.2

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Mental Health Services OR Hospital-based rehabilitation OR psychiatric rehabilitation OR dialectical behavioral treatment OR nurse-led, motivational intervention OR motivational intervention OR Contingency management OR cognitive behavio* therapy OR behavio* day treatment OR motivational enhancement therapy OR mindfulness OR community-based counselling OR stepped care)

6.2 End of life care

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (End of life care interventions OR End of life planning OR Palliative care OR respite care OR Hospital care)

6.3 Addiction support

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Addiction support interventions OR Therapeutic communities OR harm-reduction OR methadone OR opioid substitution therapy OR faith-based addiction treatment OR abstinence contingent housing OR overdose training OR managed alcohol programme OR smoking cessation OR alcohol abuse OR comprehensive approach to rehabilitation OR harm reduction treatment for alcohol OR methamphetamine treatment OR community health OR naloxone Or supervised consumption facilities)

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7. Education and Skills

7.1 Life and social skills training

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND education and skills interventions OR life skills training Or Social skills training OR emotional skills training OR financial literacy OR money management training Or tenancy management)

7.2 Mainstream education

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND education interventions OR classroom interventions)

7.3 Homelessness awareness programmes in schools

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Homelessness awareness programmes in schools OR Awareness Campaigns OR Homelessness awareness interventions)

7.4 Recreational and creative activities

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Recreational OR Social OR creative activities OR social clubs OR Theatre)

8. Communication

8.1 Advocacy Campaign

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Advocacy Campaign OR Rights of homeless campaign)

8.2 Public information campaigns

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Public information campaigns OR government-run campaigns)

8.3 Service availability

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Service availability communication interventions OR Service availability information interventions)

9. Financing

9.1 Social Impact Bonds

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Social Impact Bonds)

9.2 Direct financial support from public

(Effectiveness OR impact evaluation OR Implementation OR Barriers and facilitators OR Process Evaluation OR Evaluation) AND (Homeless OR Houseless or Roofless OR People experiencing homelessness OR Rough sleepers) AND (Financial assistance OR emergency financial assistance OR cash transfers OR personalised budgets OR hardship payments OR financial incentives)

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Appendix 2 Organisational/institutional websites searched

Country/Region (with dates searched in parentheses)	Websites searched (Organisation/ Institution name and URL)
Australia (17th September, 2021)	FACS New South Wales https://bit.ly/3p5MqxE
	Mission Australia www.missionaustralia.com.au
	The Deck thedeck.org.au
	FACS Victoria https://bit.ly/3lcJ978
	FACS Western Australia https://bit.ly/36pM6TH
	Queensland https://bit.ly/3vcdsHh
	Australian Institute of Family Studies https://aifs.gov.au/publications/ search?f%5B0%5D=sm_vid_Tags%3AHousing%20 and%20homelessness
	APO apo.org.au

Country/Region (with dates searched in parentheses)	Websites searched (Organisation/ Institution name and URL)
Canada (14th September 2021)	Homeless Hub (Journal articles) https://www.homelesshub.ca/search-library?keyw ords=evaluation&publication_date=1970-01-01%20 00%3A00%3A00&f%5B0%5D=field_resource_ type%3A253
	Homeless Hub (Reports) https://www.homelesshub.ca/search-library?keyw ords=evaluation&publication_date=1970-01-01%20 00%3A00%3A00&f%5B0%5D=field_resource_ type%3A259
	Homeless Hub (Dissertations) https://www.homelesshub.ca/search-library?keyw ords=evaluation&publication_date=1970-01-01%20 00%3A00%3A00&f%5B0%5D=field_resource_ type%3A262
	Inn from the cold https://innfromthecold.org/
	University of Ottawa https://uniweb.uottawa.ca/#!psychology/ themes/999:246/publications
Europe (14th September, 2021)	FEANTSA https://www.feantsa.org/en

Country/Region (with Websites searched (Organisation/ Institution name dates searched in and URL) parentheses) UK Centre for Housing Policy, York (13th and 14th https://www.york.ac.uk/chp/ September, 2021) Crisis https://www.crisis.org.uk/ending-homelessness/ homelessness-knowledge-hub/ Homeless Link https://homeless.org.uk/ i-sphere https://i-sphere.site.hw.ac.uk/ Joseph Rowntree Foundation jrf.org.uk Shelter shelter.org.uk Social Care Institute for Excellence https://www.scie-socialcareonline.org.uk/ St. Mungos mungos.org The National Lottery Community Fund https://www.tnlcommunityfund.org.uk/ USA **HUD Program Evaluation Division** (17th September, https://www.huduser.gov/portal/research/eval.html 2021) https://www.huduser.gov/portal/index. php?qbing=evaluation&q=search.html&x=0&y=0 https://www.huduser.gov/portal/publications/pdr_ studies.html Department of labour Search term: Homeless evaluation https://search.usa.gov/ search?utf8=%E2%9C%93&affiliate=www.dol. gov&query=homeless+evaluation

Appendix 3 List of hand searched journals

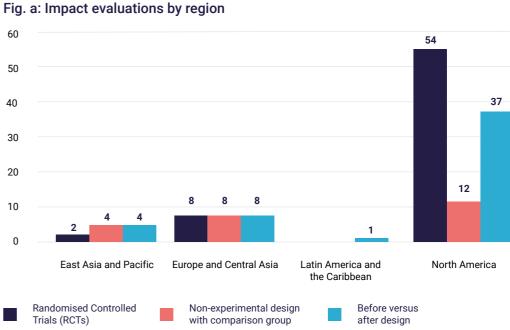
Name of the Journal	URL	Dates searched	
Health & Social Care in the Community	https://onlinelibrary.wiley.com/loi/13652524	17th September, 2021	
Housing Care and Support	https://www.emerald. com/insight/publication/ issn/1460-8790	21st September, 2021	
Housing Policy Debate	https://www.tandfonline. com/loi/rhpd20	21st August, 2021	
Housing Studies	https://www.tandfonline. com/loi/chos20	21st August, 2021	
International Journal of Housing Policy	https://www.tandfonline. com/loi/reuj20	21st September, 2021	
Journal of Social Distress and the Homeless	https://www.tandfonline. com/loi/ysdh20	17th September, 2021	
Parity	https://search.informit. org/journal/par	21st September, 2021	

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Appendix 4 A brief analysis of new records in the homelessness effectiveness map (based on records added during 2021 update)

Study Design and Regional distribution

This iteration of EGM added 25 systematic reviews and 138 impact evaluations. As many as 64 studies among the impact evaluation are randomised controlled trials (46 per cent). As high as 85% of all the RCTs are from North America alone. A total of 37 and 17 RCTs are from the US and Canada respectively.



Included Records by Intervention and Study design

The distribution of included studies by intervention categories and study design suggests that RCTs have mostly been conducted for intervention categories: prevention and outreach, accommodation and accommodation based services and health and social care. A similar trend can be observed across all other study designs. The figure clearly shows preponderance of studies under certain intervention categories and a visible lack of studies in legislation, communication and financing interventions.

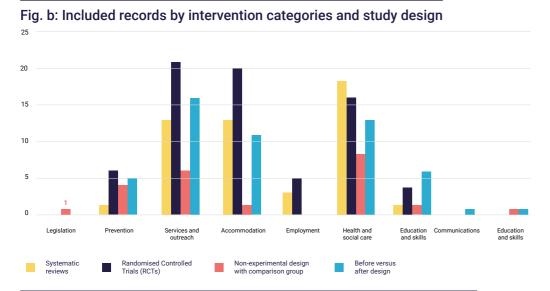


Table (i) Aggregate map of included records by intervention and outcome categories

Intervention categories	Capabilities and Wellbeing	Cost	Crime and justice	Employment and income	Health	Housing stability	Public attitudes and engagement
Legislation	1	1	0	1	1	2	0
Prevention	37	17	15	26	59	65	0
Services and outreach	101	45	30	63	204	155	0
Accommodation and accommodation-based services	83	39	27	50	136	129	0
Employment	13	4	5	21	30	21	0
Health and social care	76	33	19	35	214	72	0
Education and skills	48	5	13	14	55	18	0
Communications	1	2	0	0	2	0	1
Financing	1	1	1	1	1	3	0

PART 4: AN UPDATED EVIDENCE AND GAP MAP

Appendix 5 Description of Intervention and outcome categories and subcategories

Intervention categories and sub-categories

Intervention	Intervention sub-category	Definition
Legislation		Marked if any sub-category in this category is marked.
	Housing/ Homelessness Legislation	Legislation pertaining to availability of/ access to housing, or the rights of those experiencing homelessness.
	Welfare Benefits	Legislation for welfare programmes to help people experiencing homelessness, or to help prevent people who are at risk of becoming homeless from losing their home.
	Health and social care legislation	Legislation for access to health and social care to help people experiencing homelessness, or to help people who are at risk of becoming homeless.
Prevention		Marked if any sub-category in this category is marked.
	Welfare and Housing Support	State contribution towards housing costs and other welfare payments and services, whether directly made to tenants or indirectly paid to service providers (e.g. landlords - examples in the UK: Local Housing Alliance, Universal Credit, etc; US: vouchers) from the state or non-state actors. This includes other welfare benefits such as childcare if studied in the context of homelessness.

Housing supply	Policies promoting the development of new housing supply that is affordable and accessible (whether for social or private purposes) - this includes the construction, conversion of homes, and repurposing. Interventions comprise changes to legislation, financing mechanisms and other support for developers and those conditioning units for these purposes.
Family mediation and conciliation	Counselling and mediation of conflicts, usually between young people and their family so they may avoid becoming homeless or reduce other risky behaviours. (Landlord-tenant mediation is a separate category)
Landlord-tenant mediation	Mediation between landlords and tenants to encourage landlords to accept tenants with history of homelessness, substance abuse etc and to address conflicts. This may include, but is not limited to mediation around arrears, noise and substance abuse, damage to property, eviction, etc. Mediation with neighbours is also included here.
Discharge interventions	Provision of services, including accommodation, to people being discharged from institutions (care, hospitals, prison, armed forces) to avoid people being discharged into homelessness. This may include coordination between agencies, accommodation, and other services tailored to their needs. It refers to both interventions whilst in the institution and community-based interventions focused on recently discharged persons.

Services and outreach		Marked if any sub-category in this category is marked.
	Direct feeding (e.g. soup runs)	Provision of food in street and day centre settings to people experiencing homelessness.
	In-kind support (exc. food)	Provision of clothing, hygiene products, household items etc., but excluding food.
	Day centres	Centres open only during the day to provide food and services for people experiencing homelessness. This code is used if the day centre itself is being evaluated in the study rather than being the setting for the intervention.
	Outreach	Outreach refers to work with people sleeping rough or in temporary or unstable accommodation. Outreach workers go out, including late at night and in the early hours of the morning, to locate people who are rough sleeping or work with day centres, shelters etc. The role of outreach teams varies but usually outreach workers seek to engage with people and check their immediate health and wellbeing, collect basic information about their situation, facilitate access to emergency accommodation or other accommodation (such as hostels or Housing First), and inform them about day centres and other services they might have available. Outreach models vary and may include enforcement (e.g. police officials) to remove people from the streets or enforce specific behaviours.

	Reconnection of people experiencing street homelessness	Reconnecting people experiencing homelessness (rough sleepers) or at risk of homelessness (e.g. dischargees) to their 'home' location (usually another city, state or country where they have networks, access to services, etc) by providing the cost of transport for relocation.
	Psychologically informed environments	Psychologically informed environments are interventions designed to take into account the psychological profile of the client. Community Reinforcement Approach (CRA) is included here.
	Case management (inc. Critical Time Intervention)	Individual-level approach to ensure coordination of services. The case worker (can be a social worker or dedicated case worker from another agency) works directly with the client to ensure that the client has access to all applicable services e.g. health, training and social activities. A specific application of the case work approach is critical time intervention (CTI) which provides a person (or family) in transition between types of accommodation and at risk of homelessness with a period of intensive support from a caseworker. The caseworker will have established a relationship with the client before the transition – for example, before discharge from hospital or prison. Critical time intervention involves three stages: (1) direct support to the client and assessing what resources exist to support them, (2) trying out and adjusting the systems of support as necessary, and (3) completing the transfer of care to existing community resources.

	Service coordination, co-location or embedded in mainstream services	System-based approaches to ensuring coordination of service delivery. Coordination may refer to ensuring communication between relevant services. Coordination also includes providing services in the same location or adjacent to mainstream services. Co-location refers to multiple services being available in the same physical location (e.g. housing and job search services in the same location). Embedded refers to services being integrated in the same place (e.g. housing and other services within a hospital context). A specific example is coordinated assessment. Refers to case workers making broad assessments of people at risk as homelessness on different factors that affect their risk. Try to ensure different services employ the same assessment tools to standardise practice.
	Veterinary services	Access to veterinary services for pets of people experiencing homelessness.
	Legal advice	Legal assistance and advice delivered away from primary service/office to the homeless population.
Accommodation and accommodation-based services	Shelters	Homeless shelters are a basic form of temporary accommodation where a bed is provided in a shared space overnight. One of the key features of a homeless shelter is that it is transitional and an option for those homeless who are not yet eligible for more stable accommodation. Shelters are not usually seen as stable forms of accommodation as the individual must vacate the space during daytime hours with their belongings. One of the key differences with hostels is the need to vacate the premises during the day.

Hostels	Hostels for homeless people are designed to provide short-term accommodation, usually for up to two years depending on available moveon accommodation. Typically shared accommodation projects with individual rooms and shared facilities including bathrooms and kitchens. Hostels have staff on site 24 hours a day and during the daytime provide support to residents on issues including welfare benefits and planning their move from the hostel into more medium to long-term accommodation.
Temporary accommodation	Temporary accommodation includes a range of housing options which are more stable than shelters or hostels, such as transitional housing and residential programmes.
Host homes	Emergency Host homes are emergency short-term placements in volunteers' own homes in the community for people who are homeless or at risk of homelessness. Hosting services are often aimed at young people with low support needs, but exist for other groups too, such as people who have been refused asylum.
Rapid Rehousing	Rapid rehousing places those who are experiencing homelessness into accommodation as soon as possible. The intervention provides assistance in finding accommodation, and limited duration case work to connect the client to other services.
Housing First	Housing First offers accommodation to homeless people with multiple and complex needs with minimal obligations or conditions being placed upon the participant. Housing First provides safe and stable housing to all individuals, regardless of criminal background, mental instability, substance abuse, or income.

	Social housing (with or without support)	Housing that is provided in the social sector. It may sometimes be provided alongside support services, this may be temporary or permanent. Examples of support that may be provided are health and money management (excluding Housing First and Rapid Rehousing). This is based on an institutional setting.
	Private Rental Sector (with and without support)	Housing that is provided in the private rental market where the tenant is fully responsible. This may or may not include additional support services as the focus is on the type of tenancy agreement (private).
	Continuum of Care	An approach to accommodation whereby people experiencing homelessness move through different forms of transitional accommodation until they are deemed 'housing ready' (e.g. stopped substance abuse) and allocated independent settled housing.
Employment	Mentoring, coaching and in- work support	Mentoring and coaching to support job search including activities like practice interviews, review CVs, etc and on the job support for work performance.
	Flexible employment	Employment which can accommodate needs for the person experiencing homelessness.
	Vocational training and unpaid work experiences	Unpaid job placement or vocational training to provide work experience for people experiencing, or at risk of, homelessness.
	Paid work experiences	Paid job placement to provide work experience for people experiencing, or at risk of, homelessness.
Health and social care	Health services (physical and mental)	Providing direct access to, or facilitating access to, physical and mental health services for people experiencing homelessness.
	End of life care	End of life care for people experiencing or at risk of homelessness.
	Addiction support	Services for people experiencing, or at risk of, homelessness who have issues with substance use (including alcohol and other substances).

Education and skills	Life and social skills training	Life and social skill training including socio-emotional skills, financial literacy (money management), tenancy management, and how to deal with ones home; for people experiencing or at risk of homelessness.
	Mainstream education	General education at all levels for people experiencing, or at risk of, homelessness including children in families at risk of or experiencing homelessness.
	Homelessness awareness programmes in schools	School-based programmes to raise awareness of homelessness [Not interventions to help school aged children attend school; these are under mainstream education).
	Recreational and creative activities	Recreational, social (e.g. social clubs) and creative (e.g. theatre) activities for people experiencing homelessness.
Communication	Advocacy campaigns	Campaigns by third sector organisations which aim to improve awareness of the general public of homelessness, its causes, and its solutions, and promote rights of the homeless.
	Public information campaigns	Campaigns by government organisations which aim to improve awareness of the general public of homelessness, its causes, and its solutions, and promote rights of the homeless.
	Service availability	General communication activities to raise awareness amongst people at risk of, or experiencing, homelessness of the services available to them. Does not include case management, discharge etc which provides information or connects individuals to services.

3	Social Impact Bonds	Performance-based financing for organisations commissioned to provide services to people experiencing homelessness. These are not interventions in themselves, but payment mechanisms for service deliverers.
	Direct financial support from public	Money given directly by individuals to those experiencing or at risk of homelessness

Outcome categories and sub-categories

Outcomes	Outcome sub-category	Definitions
Capabilities and Wellbeing	Social connectedness and social networks (including loneliness)	Community engagement and social connectedness e.g. social networks and loneliness.
	Education, skills and self care	Improved skill and self care including all life skills.
	Overall Wellbeing and Quality of Life	Overall wellbeing or quality of life including happiness.
Cost		Cost related outcomes/ indicators. This includes cost effectiveness, cost per participant and saving.
	Cost Effectiveness	Cost effectiveness as cost per outcome in absolute or relative terms.
	Cost per Participant	Cost per participant.
	Saving	Cost savings from interventions (e.g. "this policy would reduce the number of ambulance/ police incidents and save the government money").
Crime and justice		Crime and justice outcomes/ indicators. This includes arrest and imprisonment, recidivism and victims of crime.
	Offending, arrest and imprisonment	Any measure or record of any recognized crime (violent/non-violent/any other offence), arrest, conviction and imprisonment.
	Anti-social behaviour and delinquency	Non-criminal anti-social and disruptive behaviour, such as public drunkenness. Delinquency refers to non-criminal anti-social behaviour by youth.
	Recidivism	Tendency of a convicted criminal to reoffend.
	Victims of crime	Outcomes/indicators about those experiencing and at risk of homelessness being victims of crime.

Employment and income		Employment and income outcomes/indicators. This includes access to welfare benefits, earned income, employment status, forced labour and sex work.
	Access to Welfare Benefits	Access to welfare benefits as outcomes/indicators.
	Earned Income	Earned income (e.g. salary or wages).
	Employment Status	Employment status (e.g. employed full time, self-employed, unemployed, etc).
	Forced Labour and Sex Work	Forced labour and sex work (e.g. slavery or prostitution).
Health		Health outcomes/indicators. This includes abstinence from substance abuse, access to mainstream health care, harm reduction, mental health status and physical health and nutrition status.
	Substance Abuse	Abstinence from substance abuse including both alcohol and tobacco (e.g. 12 months without alcohol or drugs).
	Access to Mainstream Health Care	Access to and utilisation of mainstream health care as outcomes/indicators (e.g. registered with a local general practice doctor).
	Mental Health Status	Mental health status (e.g. diagnosed with conditions such as depression, anxiety, psychosis, personality disorder, etc).
	Physical Health and Nutrition Status	Physical health or nutrition (e.g. life expectancy, dietary intake, anthropometric indicators).
	Risky behaviour	Risky behaviour as outcomes/ indicators (e.g. early onset of sexual activity or unsafe sexual practices, risky driving, antisocial behaviour etc).

Housing Stability		Housing stability outcomes/ indicators. This includes accommodation status and satisfaction with housing.
	Accommodation Status	Accommodation status or quality of housing as outcomes/indicators (e.g. living independently, living in temporary accommodation, sleeping on the streets).
	Satisfaction with Housing	Satisfaction with housing (subjective, objective measures are in accommodation status).
Public attitudes and engagement		Public attitudes and engagement. This includes fundraising, public understanding, support for intervention, and engagement in homelessness related activities.
	Fundraising and direct giving	Charity fundraising.
	Public Understanding	Public understanding as outcomes/indicators (e.g. hostility or empathy towards homeless people).
	Engagement in Homelessness Related Activities	Public engagement in homeless related activities as outcomes/ indicators (e.g. number of volunteer applicants).

Appendix 6 Characteristics of impact evaluations from the UK

Author	Title	Location	Population sub-groups	Study Design	Intervention	Outcome	Confidence in study findings
Aldridge (2014)	Impact of peer educators on uptake of mobile x-ray tuberculosis screening at homeless hostels: a cluster randomised controlled trial	London (England)	Other	Randomised Controlled Trials (RCTs)	Health and social care	Health	Medium/ high confidence
Aldridge (2019)	Impact evaluation of the Rough Sleeping Initiative 2018	(England)	Other	Non- experimental design with comparison group	Services and outreach	Housing stability	Low confidence
Bäumker (2008)	Costs and s of an extra care housing scheme in Bradford	Bradford (England)	Elderly People with/history of mental illness	Before versus after design	Accommodation and accommodation-based services	Cost Health	Low confidence
Bradley (2020)	'Every day is hard, being outside, but you have to do it for your child': mixed-methods formative evaluation of a peer-led parenting intervention for homeless families	London (England)	Families with children	Before versus after design	Education and skills	Capabilities and Wellbeing	Low confidence
Burke (2018)	'Mobile Me': An evaluation of a sport intervention in sheltered housing and care homes	Norfolk (England)	Elderly People leaving social care	Non- experimental design with comparison group	Education and skills	Capabilities and Wellbeing Health	Low confidence
Cooley (2019)	The experiences of homeless youth when using strengths profiling to identify their character strengths	Midlands (England)	Young people	Before versus after design	Education and skills	Capabilities and Wellbeing	Low confidence
Cox (2018)	Exploring the use and uptake of e-cigarettes for homeless smokers	England and Scotland	People with alcohol/drug issues People with complex needs/ dual diagnosis	Randomised Controlled Trials (RCTs)	Health and social care	Cost Health	Low confidence
Craig (2004)	The Lambeth Early Onset (LEO) Team: randomised controlled trial of the effectiveness of specialised care for early psychosis	London (England)	People with/ history of mental illness	Randomised Controlled Trials (RCTs)	Services and outreach	Health	Medium/ high confidence
Dawkins (2020)	A cluster feasibility trial to explore the uptake and use of e-cigarettes versus usual care offered to smokers attending homeless centres in Great Britain	London, Northampton and Edinburgh (England and Scotland)	People with alcohol/drug issues	Non- experimental design with comparison group	Health and social care	Capabilities and Wellbeing Health	Low confidence

Author	Title	Location	Population sub-groups Study De	sign Intervention	Outcome	Confidence in study findings
Department for Communities and Local Government (2017)	The impact evaluation of the London Homelessness Social Impact Bond	London (England)	Other Non- experime design wi comparis group	th	Capabilities and Wellbeing Housing stability	Low confidence
Dunn (2019)	Military veteran transition into employment and civilian engagement: a walking with the wounded evaluation	Not reported	Veterans/Ex- Before ve services after desi	1 /	Employment I and income Health	Low confidence
Garety (2006)	Specialised care for early psychosis: symptoms, social functioning and patient satisfaction: randomised controlled trial.	London (England)	People with/ Randomis history of mental Controlle illness (RCTs)		I Capabilities and Wellbeing Health Housing stability	Low confidence
Hickman (2017)	The impact of the direct payment of housing benefit: evidence from Great Britain	England Scotland Wales	Other Non- Social housing experime tenants design with comparist group [] PSM, p.	th on	Housing stability	Low confidence
Hopkin (2016)	The Impact of the Critical Time Intervention for People with Severe Mental Illness in the Transition from Prison to the Community	London (England)	Ex-prisoners Randomis People with/ Controlle history of mental (RCTs) illness		Health	Medium/ high confidence
Hough (2020)	Adopting a Critical Time Intervention model through Fulfilling Lives Newcastle Gateshead: An evaluation	Newcastle and Gateshead (England)	People with Before ve complex needs/ after desidual diagnosis		Capabilities and Wellbeing Crime and justice Health	Low confidence
Howard (2010)	Effectiveness and cost-effectiveness of admissions to women's crisis houses compared with traditional psychiatric wards: pilot patient-preference randomised controlled trial	London (England)	People with/ Randomishistory of mental Controlle illness (RCTs) Women and girls		I Capabilities and Wellbeing Cost Health	Medium/ high confidence
Jarrett (2012)	Continuity of care for recently released prisoners with mental illness: a pilot randomised controlled trial testing the feasibility of a Critical Time Intervention	London (England)	Ex-prisoners Randomis People with/ Controlle history of mental (RCTs) illness		Employment and income Health Housing stability	Low confidence

Author	Title	Location	Population Study Design Intervention	Outcome	Confidence in study findings
Khan (2020)	Impact on the use and cost of other services following intervention by an inpatient pathway homelessness team in an acute mental health hospital	London (England)	People with/ Before versus Services and history of mental after design outreach illness	Cost Health	Low confidence
Killaspy (2004)	Treating the homeless mentally ill: does a designated inpatient facility improve ?	London (England)	People with/ Non- Prevention history of mental experimental Health and social illness design with care comparison group	Health Housing stability	Low confidence
Killaspy (2006)	The REACT study: randomised evaluation of assertive community treatment in north London	London (England)	People with Randomised Services and alcohol/drug Controlled Trials outreach issues (RCTs) People with/ history of mental illness	Capabilities and Wellbeing Health	Low confidence
Killaspy (2019)	Feasibility randomised trial comparing two forms of mental health supported accommodation (supported housing and floating outreach); a component of the QuEST (Quality and Effectiveness of Supported Tenancies) Study	London and Cheltenham (England)	People with/ Randomised Accommodation history of mental illness (RCTs) accommodation accommodation based services	Capabilities and Wellbeing Health	Medium/ high confidence
Lowrie (2021)	Pharmacist led homeless outreach engagement and non-medical independent prescribing (Rx) (PHOENIx) intervention for people experiencing homelessness: a non-randomised feasibility study	Glasgow (Scotland)	People with Non- Health and social existing health experimental care conditions design with (excluding HIV) comparison group	Health	Low confidence
MacInnes (2021)	Supporting prisoners with mental health needs in the transition to RESETtle in the community: the RESET study	Kent and London (England)	Ex-prisoners Non- Prevention People with/ experimental history of mental design with illness comparison group	Housing stability	Medium/ high confidence
Marshall (1995)	Social services case-management for long-term mental disorders: a randomised controlled trial.	Not reported	People with/ Randomised Services and history of mental Controlled Trials outreach illness (RCTs)	Capabilities and Wellbeing Health	Medium/ high confidence
Murphy (2017)	Tackling Multiple Disadvantage: Year 1 Interim Report	London (England)	People with Before versus Prevention complex needs/ after design Employment dual diagnosis	Capabilities and Wellbeing Employment and income Health	Medium/ high confidence

Author	Title	Location	Population Study Design Intervention Outcome	Confidence in study findings
Paisi (2019)	Management of plaque in people experiencing homelessness using 'peer education': a pilot study	Plymouth (England)	Other Before versus Services and Capabilities [] Homeless after design outreach and Health and social Wellbeing care Health Education and skills	Medium/ high confidence
Parkes (2019)	Supporting Harm Reduction through Peer Support (SHARPS): testing the feasibility and acceptability of a peer-delivered, relational intervention for people with problem substance use who are homeless, to improve health s, quality of life and social functioning and reduce harms: study protocol. Pilot and feasibility studies	Not reported	People with Before versus Services and Health alcohol/drug after design outreach Housing issues Health and social stability care	Ongoing
Quinton (2021)	An evaluation of My Strengths Training for Life (TM) for improving resilience and well-being of young people experiencing homelessness	England	Young people Before versus Education and Capabilities after design skills and Wellbeing	Low confidence
Rathod (2021)	Peer advocacy and access to healthcare for people who are homeless in London, UK: a mixed method impact, economic and process evaluation protocol	London (England)	People with Non-Services and Cost alcohol/drug experimental outreach Health issues design with People with comparison existing health group conditions (excluding HIV) People with/history of mental illness	Ongoing
Shaw (2017)	Critical time Intervention for Severely mentally ill Prisoners (CrISP): a randomised controlled trial	London (England)	Ex-prisoners Randomised Services and Capabilities People with/ Controlled Trials outreach and history of mental (RCTs) Wellbeing illness	Low confidence
Stringer (2019)	Promoting physical activity in vulnerable adults at risk' of homelessness: a randomised controlled trial protocol	London (England)	Elderly Randomised Education and Health Controlled Trials skills (RCTs)	Ongoing
Sundin (2020)	Feasibility and acceptability of an intervention for enhancing reintegration in adults with experience of homelessness	England	Other Before versus Education and Housing [] Above 18 years after design skills stability (18-63)	Low confidence
Tempier (2012)	Does Assertive Community Outreach Improve Social Support? Results From the Lambeth Study of Early-Episode Psychosis	London (England)	People with/ Randomised Services and Capabilities history of mental Controlled Trials outreach and illness (RCTs) Wellbeing Health	Medium/ high confidence

Appendix 7 List of Included Studies

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