

# Integrated health and social care for people experiencing homelessness

NICE guideline: Methods

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# 1 **Development of the guideline**

## 2 **Remit**

3 The National Institute for Health and Care Excellence (NICE) commissioned the  
4 National Guideline Alliance (NGA) to develop a guideline about integrated health and  
5 social care for people experiencing homelessness.

6 To see “What this guideline covers” and “What this guideline does not cover” please  
7 see the final scope of the guideline on the [NICE website](#).

# 1 Methods

2 This guideline was developed using the methods described in the [Developing NICE](#)  
3 [guidelines: the manual](#).

4 Declarations of interest were recorded according to the [NICE conflicts of interest](#)  
5 [policy](#).

## 6 Developing the review questions and outcomes

7 The review questions developed for this guideline were based on the key areas  
8 identified in the guideline [scope](#). They were drafted by the NGA technical team, and  
9 refined and validated by the guideline committee.

10 The review questions were based on the following frameworks:

- 11 • intervention reviews – using population, intervention, comparator and outcome  
12 (PICO)
- 13 • qualitative reviews – using population, phenomenon of interest and context (PICo)

14 Full literature searches, critical appraisals and evidence reviews were completed for  
15 all review questions.

16 The review questions and evidence reviews corresponding to each question (or  
17 group of questions) are summarised below.

18 **Table 1: Summary of review questions and index to evidence reviews**

Evidence review	Review question	Type of review
[A & B] Effectiveness of approaches to improve access to and engagement with health and social care and joined up approaches <sup>1</sup>	[A] What approaches are effective in improving access to and/or engagement with health and social care for people who experience homelessness?  AND  [B] What joined up approaches are effective in responding to the health, social care and housing needs of people experiencing homelessness?	Intervention
[C] Views and experiences of health and social care for people experiencing homelessness	What works well and what could be improved about access to, engagement with and delivery of health and social care for people experiencing homelessness?	Qualitative

19 <sup>1</sup>Original health economic analysis conducted

- 1 Additional information related to development of the guideline is contained in:
- 2 • Supplement 1 (Methods; this document)
  - 3 • Supplement 2 (Economic literature)
  - 4 • Supplement 3 (NGA staff list).

## 5 **Searching for evidence**

### 6 **Scoping search**

7 During the scoping phase, searches were conducted for previous guidelines,  
8 economic evaluations, health technology assessments, systematic reviews,  
9 randomised controlled trials, observational studies and qualitative research.  
10 Searches of websites of organisations were also undertaken for relevant policies and  
11 related documents.

### 12 **Systematic literature search**

13 Systematic literature searches were undertaken to identify published evidence  
14 relevant to each review question.

15 For Review A and Review B evidence published up to March 2020 was identified  
16 from an Evidence and Gap Map (EGM) developed by the Centre for Homelessness  
17 Impact and the Campbell Collaboration (White 2020a, White 2020b). Further details  
18 on the resources used to populate the EGM are given at the end of this section. For  
19 evidence published from March 2020 onwards, a de-novo top up search was  
20 conducted. The top up search used a combined search to cover Review A and  
21 Review B.

22 For Review C searches were conducted that were limited to 1999 onwards.

23 For Review C and the top up search for Review A and Review B databases were  
24 searched using subject headings, free-text terms and, where appropriate, study type  
25 filters. Where possible, searches were limited to retrieve studies published in English.  
26 The searches for Review C and the top up search for Review A and Review B were  
27 conducted in the following databases: Medline, Medline-in-Process, Cochrane  
28 Central Register of Controlled Trials (CCTR), Cochrane Database of Systematic  
29 Reviews (CDSR), Database of Abstracts of Reviews of Effects (DARE), Embase,  
30 Health Management Information Consortium (HMIC), Social Policy and Practice,  
31 PsycInfo, Emcare, Applied Social Sciences Index & Abstracts (ASSIA), Social  
32 Services Abstracts, Sociological Abstracts, Cumulative Index to Nursing and Allied  
33 Health Literature (CINAHL), Social Sciences Citation Index (SSCI) and Social Care  
34 Online. For the top up search for Review A and Review B the International Health  
35 Technology Assessment (IHTA) database was also searched. The webpages of the  
36 following organisations were also checked for evidence relevant to Review C and the  
37 top up search for Review A and Review B: Shelter, Groundswell, Crisis, St Mungos,  
38 Salvation Army, Centrepoin, Centre for Homelessness Impact, FEANTSA, Revolving  
39 Door, Centre for Housing Policy, Homeless Link, Kings Fund, Gov.uk, Campbell  
40 Collaboration, OpenGrey. For the top up search for Review A and Review B the  
41 websites of the following organisations were also searched: Homeless Hub, United  
42 State Interagency Council on Homelessness, Homelessness Australia and Housing  
43 First Europe Hub.

1 Due to the short development time for the guideline searches were run once for all  
2 reviews during development.

3 Details of the search strategies, including the study-design filters used and  
4 databases searched, are provided in Appendix B of each evidence review.

5 For reference, the resources used to populate the Evidence Gap Map (EGM)  
6 developed by the Centre for Homelessness Impact and the Campbell Collaboration  
7 (White 2020a) mentioned in the text above are listed below:

8 Systematic review: Munthe-Kaas, H.M., Berg, R.C. and Blaasvær, N. (2018),  
9 Effectiveness of interventions to reduce homelessness: a systematic review and  
10 meta-analysis. *Campbell Systematic Reviews*, 14: 1-281.

11 Academic databases: Econlit; The National Bureau of Economic Research (NBER);  
12 Social Science Research Network (SSRN); International Bibliography of Social  
13 Sciences (IBSS); Applied Social Sciences Index and Abstracts (ASSIA); Social  
14 Service Abstract; Embase; PubMed; PsycINFO; MEDLINE; WHO's Global Health  
15 Library; CABI's Global Health; ERIC; CINHALL; SCOPUS; Web of Science; EPPI  
16 Centre Evaluation Database of Education Research

17 Evidence and Gap Map databases: 3ie Evidence and gap map repository; Global  
18 Evidence Mapping Initiative; Evidence based Synthesis Program (Department of  
19 Veteran affairs)

20 Systematic review databases: Swedish Agency For Health Technology Assessment  
21 and Assessment of Social Services; Collaboration for Environmental Evidence;  
22 Cochrane; Campbell; 3ie Systematic Review Database; Research for Development;  
23 Epistemonikos

24 French & Norwegian Academic databases: Scholar.google.fr; Cairn.info; Persee.fr;  
25 Scholar.google.no

26 Websites: Homeless Hub (<https://www.homelesshub.ca/>); European observatory on  
27 homelessness (<https://www.feantsaresearch.org/en/publications>); United State  
28 interagency council on homelessness (<http://www.usich.gov/>); EThOS  
29 (<http://ethos.bl.uk/Home.do>); WHO ICTRP (<http://apps.who.int/trialsearch/>); Focus on  
30 Prevention (<http://www.preventionfocus.net/>); Social Policy and Practice  
31 (<http://www.spandp.net/>); 100,00000 home campaigns  
32 ([https://en.wikipedia.org/wiki/100,0000\\_Homes\\_Campaign](https://en.wikipedia.org/wiki/100,0000_Homes_Campaign)); Anti poverty committee  
33 ([https://en.wikipedia.org/wiki/AntiPoverty\\_Committee](https://en.wikipedia.org/wiki/AntiPoverty_Committee)); Back on my feet  
34 ([https://en.wikipedia.org/wiki/Back\\_on\\_My\\_Feet\\_\(nonprofit\\_organization\)](https://en.wikipedia.org/wiki/Back_on_My_Feet_(nonprofit_organization))); Feantsa  
35 (<https://www.feantsa.org/>); National Coalition Homeless  
36 (<https://nationalhomeless.org/>); Homelessness Australia  
37 (<https://www.homelessnessaustralia.org.au/>); Mission Australia  
38 (<https://www.missionaustralia.com.au/publications/positionstatements/homelessness>)  
39 ; National Alliance to end homelessness (<https://endhomelessness.org/>); Institute of  
40 global homelessness (<https://www.ighomelessness.org/>); Homelessness link  
41 (<https://www.homeless.org.uk/>); Crisis  
42 (<https://www.crisis.org.uk/aboutus/howwework/>); Housing first  
43 (<https://housingfirsteurope.eu/aboutthehub/>); Canadian Alliance to end homelessness  
44 (<https://housingfirsteurope.eu/aboutthehub/>); Social work and policy institutes  
45 (<http://www.socialworkpolicy.org/research/homelessness.html>); Association of  
46 housing advice services (<https://www.ahas.org.uk/>); Centre point

1 (<https://centrepoint.org.uk/>); Homelessness trust funds  
2 (<https://housingtrustfundproject.org/htfelements/homelesstrustfunds/>); Melville  
3 charitable trust (<https://melvilletrust.org/category/resourcesreports/>); Conrad H Hilton  
4 foundation (<https://www.hiltonfoundation.org/priorities/homelessness#resources>); Abt  
5 Associates (<https://www.abtassociates.com/>); Mathematica  
6 (<https://www.mathematicamp.com/>); American Institutes of Research  
7 (<https://www.air.org/>); Rand (<https://www.rand.org/>); MDRC (<https://www.mdrc.org/>)

8 Please note that the top up search for Review A and Review B used a narrower list of  
9 resources than was used by the Centre for Homelessness Impact and the Campbell  
10 Collaboration to populate the EGM as some resources were considered to contain  
11 material that was not relevant to the details set out in the protocols for Review A and  
12 Review B.

### 13 **Economic systematic literature search**

14 Systematic literature searches were also undertaken to identify published economic  
15 evidence. Databases were searched using subject headings, free-text terms and,  
16 where appropriate, an economic evaluations search filter.

17 A single search, using the population search terms used in the evidence reviews,  
18 was conducted to identify economic evidence in the NHS Economic Evaluation  
19 Database (NHS EED) and International Health Technology Assessments (IHTA).  
20 Another single search, using the population search terms used in the evidence  
21 reviews combined with an economic evaluations search filter, was conducted in  
22 Medline, Medline-in-Process, Cochrane Central Register of Controlled Trials (CCTR),  
23 Cochrane Database of Systematic Reviews (CDSR), Database of Abstracts of  
24 Reviews of Effects (DARE), Embase, Health Management Information Consortium  
25 (HMIC), Social Policy and Practice, PsycInfo, Emcare, Applied Social Sciences Index  
26 & Abstracts (ASSIA), Social Services Abstracts, Sociological Abstracts, Cumulative  
27 Index to Nursing and Allied Health Literature (CINAHL), Social Sciences Citation  
28 Index (SSCI) and Social Care Online. Where possible, searches were limited to  
29 studies published in English. The webpages of the following organisations were also  
30 checked for economic evidence: Shelter, Groundswell, Crisis, St Mungos, Salvation  
31 Army, Centrepoint, Centre for Homelessness Impact, FEANTSA, Revolving Door,  
32 Centre for Housing Policy, Homeless Link, Kings Fund, Gov.uk, Campbell  
33 Collaboration, OpenGrey.

34 Due to the short development time for the guideline the economic literature searches  
35 were run once for all reviews during development.

36 Details of the search strategies, including the study-design filter used and databases  
37 searched are provided in Supplement 2 (Economic literature).

### 38 **Quality assurance**

39 Search strategies were quality assured by cross-checking reference lists of relevant  
40 studies, analysing search strategies from published systematic reviews and asking  
41 members of the committee to highlight key studies. The principal search strategies  
42 for each search were also quality assured by a second information scientist using an  
43 adaptation of the PRESS 2015 Guideline Evidence-Based Checklist  
44 (McGowan 2016).

## 1 Reviewing research evidence

### 2 Systematic review process

3 The evidence was reviewed in accordance with the following approach.

- 4 • For the quantitative reviews, potentially relevant articles were identified by their  
5 title and abstract from the Centre for Homelessness Impact and Campbell  
6 Collaboration Evidence and Gap Map plus the NGA's top up searches (described  
7 above under 'Searching for evidence'). Full-text copies of the articles were then  
8 obtained.
- 9 • The review team were aware of two systematic reviews also derived from the  
10 Evidence and Gap Map, which were to be published imminently (Miller 2019  
11 [protocol], Keenan 2021). They liaised with the review authors who offered to  
12 contribute their analysis to the quantitative reviews for this guideline. However  
13 there were some differences in the analytical approach used for those systematic  
14 reviews, which meant they would not have fully supported the committee in  
15 making recommendations for practice. The technical team therefore did not use  
16 the materials from the above reviews and conducted their own analysis of  
17 quantitative data, according to NICE methodology, as described in this  
18 supplement.
- 19 • For the qualitative review, potentially relevant articles were identified from the  
20 search results by screening titles and abstracts. Full-text copies of the articles  
21 were then obtained.
- 22 • Full-text articles were reviewed against pre-specified inclusion and exclusion  
23 criteria in the review protocol (see Appendix A of each evidence review).
- 24 • Key information was extracted from each article on study methods and results, in  
25 accordance with factors specified in the review protocol. The information was  
26 presented in a summary table in the corresponding evidence review and in more  
27 detailed evidence tables (see Appendix D of each evidence review).
- 28 • Included studies were critically appraised using an appropriate checklist as  
29 specified in [Developing NICE guidelines: the manual](#). Further detail on appraisal  
30 of the evidence is provided below.
- 31 • Summaries of effectiveness evidence by outcome and qualitative evidence by  
32 theme were presented in the corresponding evidence review and discussed by the  
33 committee.

34 Review questions were subject to dual screening and study selection through a 10%  
35 random sample of articles, as described in the review protocols. Any discrepancies  
36 were resolved by discussion between the first and second reviewers or by reference  
37 to a third (senior) reviewer.

38 Drafts of all evidence reviews were quality assured by a senior reviewer.

### 39 Type of studies and inclusion/exclusion criteria

40 Inclusion and exclusion of studies was based on criteria specified in the  
41 corresponding review protocol.

42 Systematic reviews with meta-analyses or meta-syntheses were considered to be the  
43 highest quality evidence that could be selected for inclusion.

1 For the intervention reviews, randomised controlled trials (RCTs) were prioritised for  
2 inclusion because they are considered to be the most robust type of study design  
3 that could produce an unbiased estimate of intervention effects. Non-randomised  
4 studies (NRS) were also considered for inclusion as long as they were designed with  
5 matched comparisons or another method of controlling for confounding variables. In  
6 the absence of experimental studies (randomised or non-randomised assignment)  
7 about one of the interventions of interest, UK observational studies were also  
8 considered, providing that confounding factors were controlled for.

9 For the qualitative review, studies using focus groups, structured interviews or semi-  
10 structured interviews were considered for inclusion. Where qualitative evidence was  
11 sought, data from surveys or other types of questionnaire were considered for  
12 inclusion only if they provided data from open-ended questions, but not if they  
13 reported only quantitative data.

14 The committee was consulted about any uncertainty regarding inclusion or exclusion  
15 of studies. A list of excluded studies for each review question, including reasons for  
16 exclusion is presented in Appendix J of the corresponding evidence review.

17 Narrative reviews, posters, letters, editorials, comment articles, unpublished studies  
18 and studies published in languages other than English were excluded. Conference  
19 abstracts were not considered for inclusion because conference abstracts typically  
20 do not have sufficient information to allow for full critical appraisal.

## 21 **Methods of combining evidence**

22 When planning reviews (through preparation of protocols), the following approaches  
23 for data synthesis were discussed and agreed with the committee.

### 24 **Data synthesis for intervention studies**

#### 25 ***Pairwise meta-analysis***

26 Meta-analysis to pool results from comparative intervention studies was conducted  
27 where possible using Cochrane Review Manager (RevMan5) software.

28 For dichotomous outcomes, such as mortality, the Mantel–Haenszel method with a  
29 fixed effect model was used to calculate risk ratios (RRs). For all outcomes with zero  
30 events in both arms the risk difference was presented. For outcomes in which the  
31 majority of studies had low event rates (<1%), Peto odds ratios (ORs) were  
32 calculated as this method performs well when events are rare (Bradburn 2007).

33 For continuous outcomes, measures of central tendency (mean) and variation  
34 (standard deviation; SD) are required for meta-analysis. Data for continuous  
35 outcomes, such as quality of life, were meta-analysed using an inverse-variance  
36 method for pooling weighted mean differences (WMDs). Where SDs were not  
37 reported for each intervention group, the standard error (SE) of the mean difference  
38 was calculated from other reported statistics (p values or 95% confidence intervals;  
39 CIs), assuming the same SD for both groups and then meta-analysis was conducted  
40 as described above.

41 If a study reported only the summary statistic and 95% CI the generic-inverse  
42 variance method was used to enter data into RevMan5. If the control event rate was

1 reported this was used to generate the absolute risk difference in GRADEpro. If  
2 multivariable analysis was used to derive the summary statistic but no adjusted  
3 control event rate was reported, no absolute risk difference was calculated.

4 When meta-analysis was undertaken, the results were presented visually using forest  
5 plots generated using RevMan5 (see Appendix E of evidence review A and B).

## 6 **Data synthesis for qualitative reviews**

7 In the qualitative review where possible, a meta-synthesis was conducted to combine  
8 evidence from more than one study into a theme or sub-theme. Whenever studies  
9 identified a qualitative theme relevant to the protocol, this was extracted and the main  
10 characteristics were summarised. When all themes had been extracted from studies,  
11 common concepts were categorised and tabulated. This included information on how  
12 many studies had contributed to each theme identified by the NGA technical team.

13 The technical team were guided in their data extraction, synthesis and formulation of  
14 review findings, or themes, by a framework of phenomena developed by the  
15 guideline committee. This framework consisted of the themes that the committee  
16 anticipated would be covered by the included studies and these were set out a priori  
17 in the corresponding review protocol. As well as guiding the data extraction and  
18 synthesis, the framework also underpinned the approach referred to in the protocol  
19 as ‘thematic saturation’. Essentially, data or themes from included studies would not  
20 be extracted if they contributed to review findings which were judged to be ‘adequate’  
21 and ‘coherent’ following assessment using the GRADE-CERQual approach; that is,  
22 they were not downgraded for either domain. Themes identified from the included  
23 studies, which were not set out in the protocol but which were considered relevant to  
24 answering the review question, were also extracted and the same approach to  
25 ‘thematic saturation’ would have been applied. In this qualitative review, ‘thematic  
26 saturation’ was reached for 2 themes, resulting in the exclusion of 1 study because  
27 no other relevant data were reported in that paper. This is described in the excluded  
28 studies list in appendix J of the qualitative review.

29 Themes from individual studies were integrated into a wider context and, when  
30 possible, overarching categories of themes with sub-themes were identified. Themes  
31 were derived from data presented in individual studies. When themes were extracted  
32 from 1 primary study only, theme names used in the guideline mirrored those in the  
33 source study. However, when themes were based on evidence from multiple studies,  
34 the theme names were assigned by the NGA technical team. The names of  
35 overarching categories of themes were also assigned by the NGA technical team.

36 Emerging themes were placed into a series of thematic maps representing the  
37 relationship between themes and overarching categories. The purpose of these  
38 maps is to show relationships between overarching categories and associated  
39 themes.

# 1 Appraising the quality of evidence

## 2 Intervention studies

### 3 *Pairwise meta-analysis*

#### 4 **GRADE methodology for intervention reviews**

5 For the intervention reviews, the evidence for outcomes from included RCTs,  
6 controlled, non-randomised studies and the UK based comparative observational  
7 studies (which controlled for confounding) was evaluated and presented using the  
8 Grading of Recommendations Assessment, Development and Evaluation (GRADE)  
9 methodology developed by the international [GRADE working group](#).

10 When GRADE was applied, software developed by the GRADE working group  
11 (GRADEpro) was used to assess the quality of each outcome, taking account of  
12 individual study quality factors and any meta-analysis results. Results were  
13 presented in GRADE profiles (GRADE tables).

14 The selection of outcomes for each review question was agreed during development  
15 of the associated review protocol in discussion with the committee. The evidence for  
16 each outcome was examined separately for the quality elements summarised in  
17 Table 2. Criteria considered in the rating of these elements are discussed below.  
18 Each element was graded using the quality ratings summarised in Table 3. Footnotes  
19 to GRADE tables were used to record reasons for grading a particular quality  
20 element as having a 'serious' or 'very serious' quality issue. The ratings for each  
21 component were combined to obtain an overall assessment of quality for each  
22 outcome as described in Table 4.

23 The initial quality rating was based on the study design: RCTs start as 'high' quality  
24 evidence as do NRS assessed by ROBINS-I, other non-randomised studies start as  
25 'low' quality evidence. The rating was then modified according to the assessment of  
26 each quality element (Table 2). Each quality element considered to have a 'serious'  
27 or 'very serious' quality issue was downgraded by 1 or 2 levels respectively (for  
28 example, evidence starting as 'high' quality was downgraded to 'moderate' or 'low'  
29 quality). In addition, there was a possibility to upgrade evidence from non-  
30 randomised studies (provided the evidence for that outcome had not previously been  
31 downgraded) if there was a large magnitude of effect, a dose–response gradient, or if  
32 all plausible confounding would reduce a demonstrated effect or suggest a spurious  
33 effect when results showed no effect.

34 **Table 2: Summary of quality elements in GRADE for intervention reviews**

Quality element	Description
Risk of bias ('Study limitations')	This refers to limitations in study design or implementation that reduce the internal validity of the evidence
Inconsistency	This refers to unexplained heterogeneity in the results
Indirectness	This refers to differences in study populations, interventions, comparators or outcomes between the available evidence and inclusion criteria specified in the review protocol

Quality element	Description
Imprecision	This occurs when a study has few participants or few events of interest, resulting in wide confidence intervals that cross minimally important thresholds
Publication bias	This refers to systematic under- or over-estimation of the underlying benefit or harm resulting from selective publication of study results

1 **Table 3: GRADE quality ratings (by quality element)**

Quality issues	Description
None or not serious	No serious issues with the evidence for the quality element under consideration
Serious	Issues with the evidence sufficient to downgrade by 1 level for the quality element under consideration
Very serious	Issues with the evidence sufficient to downgrade by 2 levels for the quality element under consideration

2 **Table 4: Overall quality of the evidence in GRADE (by outcome)**

Overall quality grading	Description
High	Further research is very unlikely to change the level of confidence in the estimate of effect
Moderate	Further research is likely to have an important impact on the level of confidence in the estimate of effect and may change the estimate
Low	Further research is very likely to have an important impact on the level of confidence in the estimate of effect and is likely to change the estimate
Very low	The estimate of effect is very uncertain

3 *Assessing risk of bias in intervention reviews*

4 Bias is a systematic error, or consistent deviation from the truth in results obtained.  
5 When a risk of bias is present the true effect can be either under- or over-estimated.

6 Risk of bias in RCTs was assessed using the Cochrane risk of bias tool (see  
7 [Appendix H in Developing NICE guidelines: the manual](#)).

8 The Cochrane risk of bias tool assesses the following possible sources of bias:

- 9
- 10 • selection bias
  - 11 • performance bias
  - 12 • attrition bias
  - 13 • detection bias
  - 14 • reporting bias.

15 A study with a poor methodological design does not automatically imply high risk of  
16 bias; the bias is considered individually for each outcome and it is assessed whether  
17 the chosen design and methodology will impact on the estimation of the intervention effect.

1 More details about the Cochrane risk of bias tool can be found in Section 8 of the  
2 [Cochrane Handbook for Systematic Reviews of Interventions](#) (Higgins 2011).

3 For systematic reviews of RCTs the AMSTAR checklist was used and for systematic  
4 reviews of other study types the ROBIS checklist was used (see [Appendix H in](#)  
5 [Developing NICE guidelines: the manual](#)).

6 For non-randomised studies the ROBINS-I checklist was used (see [Appendix H in](#)  
7 [Developing NICE guidelines: the manual](#)).

### 8 *Assessing inconsistency in intervention reviews*

9 Inconsistency refers to unexplained heterogeneity in results of meta-analysis. When  
10 estimates of treatment effect vary widely across studies (that is, there is  
11 heterogeneity or variability in results), this suggests true differences in underlying  
12 effects. Inconsistency is, thus, only truly applicable when statistical meta-analysis is  
13 conducted (that is, results from different studies are pooled). When outcomes were  
14 derived from a single study the rating 'no serious inconsistency' was used when  
15 assessing this domain, as per GRADE methodology (Santesso 2016).

16 For the one instance of pooled data in the quantitative review, inconsistency was  
17 assessed visually by inspecting the forest plot and observing whether there was  
18 considerable heterogeneity in the results of the meta-analysis (for example if the  
19 point estimates of the individual studies consistently showed benefits or harms). This  
20 was supported by calculating the I-squared statistic for the meta-analysis with an I-  
21 squared value of more than 50% indicating serious heterogeneity, and more than  
22 80% indicating very serious heterogeneity. In the case of the one meta-analysis  
23 performed for this guideline, no heterogeneity was detected so no exploration of  
24 heterogeneity and no subgroup analyses were required to identify possible  
25 explanations.

### 26 *Assessing indirectness in intervention reviews*

27 Directness refers to the extent to which populations, interventions, comparisons and  
28 outcomes reported in the evidence are similar to those defined in the inclusion  
29 criteria for the review and was assessed by comparing the PICO elements in the  
30 studies to the PICO defined in the review protocol. Indirectness is important when  
31 such differences are expected to contribute to a difference in effect size, or may  
32 affect the balance of benefits and harms considered for an intervention.

### 33 *Assessing imprecision and importance in intervention reviews*

34 Imprecision in GRADE methodology refers to uncertainty around the effect estimate  
35 and whether or not there is an important difference between interventions (that is,  
36 whether the evidence clearly supports a particular recommendation or appears to be  
37 consistent with several candidate recommendations). Therefore, imprecision differs  
38 from other aspects of evidence quality because it is not concerned with whether the  
39 point estimate is accurate or correct (has internal or external validity). Instead, it is  
40 concerned with uncertainty about what the point estimate actually represents. This  
41 uncertainty is reflected in the width of the CI.

42 The 95% CI is defined as the range of values within which the population value will  
43 fall on 95% of repeated samples, were the procedure to be repeated. The larger the  
44 study, the smaller the 95% CI will be and the more certain the effect estimate.

1 Imprecision was assessed in the guideline evidence reviews by considering whether  
 2 the width of the 95% CI of the effect estimate was relevant to decision making,  
 3 considering each outcome independently. This is illustrated in Figure 1, which  
 4 considers a positive outcome for the comparison of two treatments. Three decision-  
 5 making zones can be differentiated, bounded by the thresholds for minimal  
 6 importance (minimally important differences; MID) for benefit and harm.

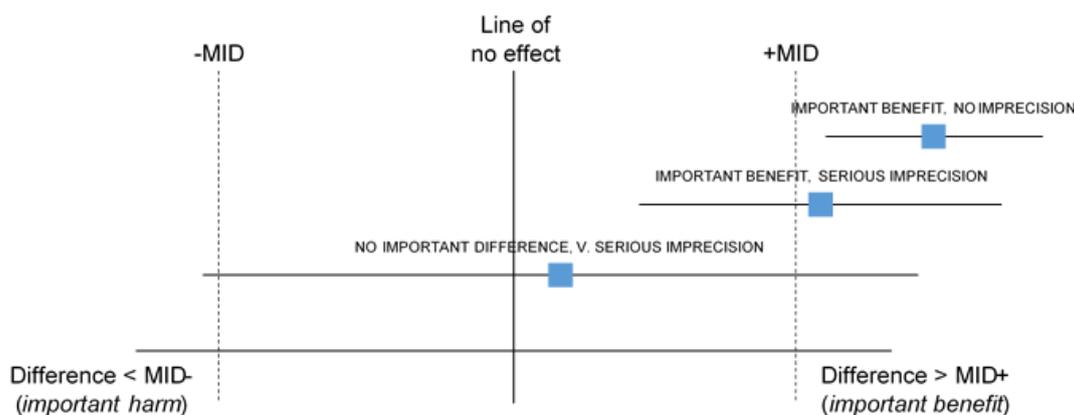
7 When the CI of the effect estimate is wholly contained in 1 of the 3 zones there is no  
 8 uncertainty about the size and direction of effect, therefore, the effect estimate is  
 9 considered precise; that is, there is no imprecision.

10 When the CI crosses 2 zones, it is uncertain in which zone the true value of the effect  
 11 estimate lies and therefore there is uncertainty over which decision to make. The CI  
 12 is consistent with 2 possible decisions, therefore, the effect estimate is considered to  
 13 be imprecise in the GRADE analysis and the evidence is downgraded by 1 level  
 14 ('serious imprecision').

15 When the CI crosses all 3 zones, the effect estimate is considered to be very  
 16 imprecise because the CI is consistent with 3 possible decisions and there is  
 17 therefore a considerable lack of confidence in the results. The evidence is therefore  
 18 downgraded by 2 levels in the GRADE analysis ('very serious imprecision').

19 Implicitly, assessing whether a CI is in, or partially in, an important zone, requires the  
 20 guideline committee to estimate an MID or to say whether they would make different  
 21 decisions for the 2 confidence limits.

22 **Figure 1: Assessment of imprecision and importance in intervention reviews**  
 23 **using GRADE**



24  
 25

*MID, minimally important difference*

## 26 *Defining minimally important differences for intervention reviews*

27 The committee was not aware of any recognised or acceptable MID values relevant to the  
 28 guideline but in the case of the EQ-5D, SF-36 and the SF-12 the review team  
 29 identified MID values in the published literature and extrapolated these. For the EQ-5D, 3.7  
 30 (-3.7 and +3.7) was used based on a paper (McClure 2017) which reported that  
 31 estimates of the EQ-5D-5L index score were generally between 0.037 and 0.069,  
 32 apparently similar to the MID estimates of other preference based health related  
 33 quality of life measures. The paper was not based on a homeless population so we

1 extrapolated a conservative estimate. For the SF-36, the MID was reported in one of  
2 the included papers (Tinland 2019) and this was also used as a basis for estimating a  
3 MID for the SF-12. This (the MID for SF-12) was set at 5 (-5 and +5) for both physical  
4 and mental components on the basis that in Tinland the MID for SF-36 (Physical  
5 Component Score) was 6.5 and for the Mental Component Score, 4.5.

6 In the absence of published or accepted MIDs, the committee agreed to use the  
7 GRADE default MIDs to assess imprecision. For dichotomous outcomes minimally  
8 important thresholds for a RR of 0.8 and 1.25 respectively were used as default MIDs  
9 in the guideline. The committee also chose to use 0.8 and 1.25 as the MIDs for ORs  
10 in the absence of published or accepted MIDs. ORs were predominantly used in the  
11 guideline when Peto OR were indicated due to low event rates, at low event rates OR  
12 are mathematically similar to RR making the extrapolation appropriate.

13 Where risk difference was used, for example because the study on which the data  
14 were based had zero events in both arms, imprecision was assessed based on  
15 sample size using 200 and 400 as cut-offs for very serious and serious imprecision  
16 respectively. The committee used these numbers based on commonly used optimal  
17 information size thresholds. The committee used the same approach to rating  
18 imprecision where medians were extracted.

19 The same thresholds were used as default MIDs in the guideline for all dichotomous  
20 outcomes considered in the intervention reviews. For continuous outcomes default  
21 MIDs are equal to half the median SD of the control groups at baseline (or at follow-  
22 up if the SD is not available a baseline).

### 23 *Assessing publication bias in intervention reviews*

24 The meta-analysis conducted in the quantitative review included fewer than 10  
25 studies. The committee therefore subjectively assessed the likelihood of publication  
26 bias based on factors such as the proportion of trials funded by industry and the  
27 propensity for publication bias in the topic area.

## 28 **Qualitative studies**

### 29 ***GRADE-CERQual methodology for qualitative reviews***

30 For the qualitative review an adapted GRADE Confidence in the Evidence from  
31 Reviews of Qualitative research (GRADE-CERQual) approach (Lewin 2015) was  
32 used. In this approach the quality of evidence is considered according to themes in  
33 the evidence. The themes may have been identified in the primary studies or they  
34 may have been identified by considering the reports of a number of studies. Quality  
35 elements assessed using GRADE-CERQual are listed and defined in Table 5. Each  
36 element was graded using the levels of concern summarised in Table 6.

37 The ratings for each component were combined (as with other types of evidence) to  
38 obtain an overall assessment of quality for each theme as described in Table 7.  
39 'Confidence' in this context refers to the extent to which the review finding is a  
40 reasonable representation of the phenomenon of interest set out in the protocol.  
41 Similar to other types of evidence all review findings start off with 'high confidence'  
42 and are rated down by one or more levels if there are concerns about any of the  
43 individual CERQual components. In line with advice from the CERQual developers,  
44 the overall assessment does not involve numerical scoring for each component but in

1 order to ensure consistency across and between guidelines, the NGA has  
 2 established some guiding principles for overall ratings. For example, a review finding  
 3 would not be downgraded (and therefore would be assessed with 'high' confidence) if  
 4 all 4 components had 'no or very minor' concerns or 3 'no or very minor' and 1  
 5 'minor'. At the other extreme, a review finding would be downgraded 3 times (to 'very  
 6 low') if at least 2 components had serious concerns or at least 3 had moderate  
 7 concerns. A basic principle was that if any components had serious concerns then  
 8 overall confidence in the review finding would be downgraded at least once  
 9 (potentially more depending on the other ratings). Transparency about overall  
 10 judgements is provided in the CERQual tables, including a brief reference to  
 11 components for which there were concerns in the 'overall confidence' cell.

12 **Table 5: Adaptation of GRADE quality elements for qualitative reviews**

Quality element	Description
Risk of bias ('Methodological limitations')	Limitations in study design and implementation may bias interpretation of qualitative themes identified. High risk of bias for the majority of the evidence reduces confidence in review findings. Qualitative studies are not usually randomised and therefore would not be downgraded for study design from the outset (they start as high quality)
Relevance (or applicability) of evidence	This refers to the extent to which the evidence supporting the review findings is applicable to the context specified in the review question
Coherence of findings	This refers to the extent to which review findings are well grounded in data from the contributing primary studies and provide a credible explanation for patterns identified in the evidence
Adequacy of data (theme saturation or sufficiency)	This corresponds to a similar concept in primary qualitative research, that is, whether a theoretical point of theme saturation was achieved, at which point no further citations or observations would provide more insight or suggest a different interpretation of the particular theme. Judgements are not based on the number of studies but do take account of the quantity and also richness of data underpinning a finding. The more complex the finding, the more detail the supporting data need to be. For simple findings, relatively superficial data would be considered adequate to explain and explore the phenomenon being described.

13 **Table 6: CERQual levels of concern (by quality element)**

Level of concern	Definition
None or very minor concerns	Unlikely to reduce confidence in the review finding
Minor concerns	May reduce confidence in the review finding
Moderate concerns	Will probably reduce confidence in the review finding
Serious concerns	Very likely to reduce confidence in the review finding

1 **Table 7: Overall confidence in the evidence in CERQual (by review finding)**

Overall confidence level	Definition
High	It is highly likely that the review finding is a reasonable representation of the phenomenon of interest
Moderate	It is likely that the review finding is a reasonable representation of the phenomenon of interest
Low	It is possible that the review finding is a reasonable representation of the phenomenon of interest
Very low	It is unclear whether the review finding is a reasonable representation of the phenomenon of interest

2 *Assessing methodological limitations in qualitative reviews*

3 Methodological limitations in qualitative studies were assessed using the Critical  
4 Appraisal Skills Programme (CASP) checklist for qualitative studies ([see appendix H](#)  
5 [in Developing NICE guidelines: the manual](#)). Overall methodological limitations were  
6 derived by assessing the methodological limitations across the 6 domains  
7 summarised in Table 8.

8 **Table 8: Methodological limitations in qualitative studies**

Aim and appropriateness of qualitative evidence	This domain assesses whether the aims and relevance of the study were described clearly and whether qualitative research methods were appropriate for investigating the research question
Rigour in study design or validity of theoretical approach	This domain assesses whether the study approach was documented clearly and whether it was based on a theoretical framework (such as ethnography or grounded theory). This does not necessarily mean that the framework has to be stated explicitly, but a detailed description ensuring transparency and reproducibility should be provided
Sample selection	This domain assesses the background, the procedure and reasons for the method of selecting participants. The assessment should include consideration of any relationship between the researcher and the participants, and how this might have influenced the findings
Data collection	This domain assesses the documentation of the method of data collection (in-depth interviews, semi-structured interviews, focus groups or observations). It also assesses who conducted any interviews, how long they lasted and where they took place

Data analysis	This domain assesses whether sufficient detail was documented for the analytical process and whether it was in accordance with the theoretical approach. For example, if a thematic analysis was used, the assessment would focus on the description of the approach used to generate themes. Consideration of data saturation would also form part of this assessment (it could be reported directly or it might be inferred from the citations documented that more themes could be found)
Results	This domain assesses any reasoning accompanying reporting of results (for example, whether a theoretical proposal or framework is provided)

### 1 *Assessing relevance of evidence in qualitative reviews*

2 Relevance (applicability) of findings in qualitative research is the equivalent of  
3 indirectness for quantitative outcomes, and refers to how closely the aims and  
4 context of studies contributing to a theme reflect the objectives outlined in the  
5 guideline review protocol.

### 6 *Assessing coherence of findings in qualitative reviews*

7 For qualitative research, a similar concept to inconsistency is coherence, which  
8 refers to the way findings within themes are described and whether they make sense.  
9 This concept was used in the quality assessment across studies for individual  
10 themes. This does not mean that contradictory evidence was automatically  
11 downgraded, but that it was highlighted and presented, and that reasoning was  
12 provided. Provided the themes, or components of themes, from individual studies fit  
13 into a theoretical framework, they do not necessarily have to reflect the same  
14 perspective. It should, however, be possible to explain these by differences in context  
15 (for example, the views of healthcare professionals might not be the same as those  
16 of family members, but they could contribute to the same overarching themes).

### 17 *Assessing adequacy of data in qualitative reviews*

18 Adequacy of data (theme saturation or sufficiency) corresponds to a similar concept  
19 in primary qualitative research in which consideration is made of whether a  
20 theoretical point of theme saturation was achieved, meaning that no further citations  
21 or observations would provide more insight or suggest a different interpretation of the  
22 theme concerned. As noted above, it is not equivalent to the number of studies  
23 contributing to a theme, but it does take account of the quantity of data supporting a  
24 review finding (for instance whether sufficient quotations or observations were  
25 provided to underpin the findings) and in particular the degree of 'richness' of  
26 supporting data. Concerns about richness arise when insufficient details are provided  
27 by the data to enable an understanding of the phenomenon being described.  
28 Generally, if a review finding is fairly simple then relatively superficial data will be  
29 needed to understand it. Data underpinning a more complex finding would need to  
30 offer greater detail, allowing for interpretation and exploration of the phenomenon  
31 being described. Therefore in assessing adequacy our downgrading involved

1 weighing up the complexity of the review finding against the explanatory contribution  
2 of the supporting data.

### 3 **Reviewing economic evidence**

4 Titles and abstracts of articles identified through the economic literature searches  
5 were assessed for inclusion using the predefined eligibility criteria listed in Table 9.

6 **Table 9: Inclusion and exclusion criteria for systematic reviews of economic**  
7 **evaluations**

Inclusion criteria
Intervention or comparators in accordance with the guideline scope.
Study population in accordance with the guideline scope.
Full economic evaluations (cost-utility, cost effectiveness, cost-benefit or cost-consequence analyses) assessing both costs and outcomes associated with interventions of interest. Cost analyses were also considered for inclusion due to the anticipated lack of economic evidence.
Only studies published from 2010 onwards were included in the review, as older costings were considered to be out of date and less/not relevant to the current practice.
In areas with sufficient modelling or RCT-based economic evaluations for the committee decision making, economic evaluations with costs and effectiveness from observational study designs were not considered.
Exclusion criteria
Abstracts containing insufficient methodological details.
Cost-of-illness type studies.

8 Once the screening of titles and abstracts was completed, full-text copies of  
9 potentially relevant articles were requested for detailed assessment. Inclusion and  
10 exclusion criteria were applied to articles obtained as full-text copies.

11 Details of economic evidence study selection and lists of excluded studies across all  
12 reviews are presented in Supplement 2 (Economic literature). Economic evidence  
13 tables, the results of quality assessment of economic evidence (see below) and  
14 economic evidence profiles are presented in each of the evidence reports.

### 15 **Appraising the quality of economic evidence**

16 The quality of economic evidence was assessed using the economic evaluations  
17 checklist specified in [Developing NICE guidelines: the manual](#). See the economic  
18 evidence profiles in the Summary of included economic evidence section of the  
19 Evidence review A & B for further details.

### 20 **Economic modelling**

21 The aims of the economic input to the guideline were to inform the guideline  
22 committee of potential economic issues to ensure that recommendations represented  
23 a cost effective use of resources. Economic evaluations aim to integrate data on  
24 benefits with the costs of different options. In addition, the economic input aimed to  
25 identify areas of high resource impact; these are recommendations which (while cost  
26 effective) might have a large impact on commissioners and so need special attention.

1 The guideline committee prioritised the economic analysis that would explore the  
2 cost-effectiveness of a strategy utilising lower caseloads for a practitioner within, for  
3 example, multidisciplinary outreach teams. This topic is crosscutting across the  
4 reviews and could be relevant to the following two review questions (out of the three):

- 5 • [A] What approaches are effective in improving access to and/or engagement with  
6 health and social care for people who experience homelessness? (Lower  
7 caseloads would mean that a practitioner has more time to engage with an  
8 individual, be persistent, invest in building trust, and facilitate access to care.)
- 9 • [B] What joined up approaches are effective in responding to the health, social  
10 care and housing needs of people experiencing homelessness? (Lower caseloads  
11 would mean that a practitioner has more time to engage with other services  
12 involved in the care of people experiencing homelessness which would facilitate  
13 joined up ways of working.)

14 The methods and results of the de novo economic analyses are reported in Appendix  
15 I of the combined evidence report for the above two questions (A & B). When new  
16 economic analysis was not prioritised, the committee made a qualitative judgement  
17 regarding cost effectiveness by considering expected differences in resource use and  
18 costs between options, alongside effectiveness evidence identified from the  
19 effectiveness evidence review. For example, the committee considered the potential  
20 cost of an approach to facilitate access and engagement and what it was relative to  
21 the value of improvements in health outcomes and also any changes in the cost  
22 drivers, such as unplanned attendances, crisis care, temporary accommodation or  
23 other types of resource use. The approach was likely to be cost-effective if its  
24 benefits were likely to outweigh the costs or an approach had very small costs  
25 relative to benefits and a very small budget impact. The committee also considered  
26 published public sector costs (Pleace 2016) as a reference for decision making. For  
27 example, they have considered how much public sector costs would need to be  
28 reduced or how much outcomes would need to improve to offset any additional costs  
29 associated with a particular approach or result in an incremental cost-effectiveness  
30 ratio that's below the NICEs cost-effectiveness threshold (see below).

### 31 **Cost effectiveness criteria**

32 In general, an intervention was considered to be cost effective if any of the following  
33 criteria applied (provided that the estimate was considered plausible):

- 34 • the intervention dominated other relevant strategies (that is, it was both less costly  
35 in terms of resource use and more effective compared with all the other relevant  
36 alternative strategies)
- 37 • the intervention cost less than £20,000 per quality-adjusted life year (QALY)  
38 gained compared with the next best strategy, however, it was acknowledged that  
39 this threshold may not be suitable for interventions that go beyond NHS and  
40 Personal Social Services (PSS) perspective
- 41 • the intervention provided important benefits at an acceptable additional cost when  
42 compared with the next best strategy.

43 The committee's considerations of cost effectiveness are discussed explicitly under  
44 the heading 'Cost effectiveness and resource use' in the evidence reviews.

## 1 Other sources of evidence

### 2 External experts (expert witness)

3 In addition to the systematic review evidence, testimony from expert witnesses was  
4 also used as a basis for recommendations, namely as a means of addressing gaps in  
5 the evidence reviews. The committee agreed to invite expert witnesses to address  
6 the paucity of evidence in the quantitative reviews about the role of social work and  
7 adult safeguarding in supporting access to and engagement with health and social  
8 care for people experiencing homelessness. The expert witnesses responded to a  
9 brief drafted by the technical team, which set out the key evidence gaps and the  
10 committee then used the testimony to make recommendations about safeguarding  
11 adults, aimed at commissioners, providers and Safeguarding Adults Boards.

## 12 Developing recommendations

### 13 Guideline recommendations

14 Recommendations were drafted on the basis of the committee's interpretation of the  
15 available evidence, taking account of the balance of benefits, harms and costs  
16 between different courses of action. When effectiveness, qualitative and economic  
17 evidence was of poor quality, conflicting or absent, the committee drafted  
18 recommendations based on their expert opinion. The considerations for making  
19 consensus-based recommendations include the balance between potential benefits  
20 and harms, the economic costs or implications compared with the economic benefits,  
21 current practices, recommendations made in other relevant guidelines, person's  
22 preferences and equality issues.

23 The main considerations specific to each recommendation are outlined under the  
24 heading 'The committee's discussion of the evidence' within each evidence review.

25 For further details refer to [Developing NICE guidelines: the manual](#).

### 26 Research recommendations

27 When areas were identified for which evidence was lacking, the committee  
28 considered making recommendations for future research. For further details refer to  
29 [Developing NICE guidelines: the manual](#) and [NICE's Research recommendations  
30 process and methods guide](#).

## 31 Validation process

32 This guideline was subject to a 4-week public consultation and feedback process. All  
33 comments received from registered stakeholders were responded to in writing and  
34 posted on the NICE website at publication. For further details refer to [Developing  
35 NICE guidelines: the manual](#).

## 1 **Updating the guideline**

- 2 Following publication, NICE will undertake a surveillance review to determine
- 3 whether the evidence base has progressed sufficiently to consider altering the
- 4 guideline recommendations and warrant an update. For further details refer to
- 5 [Developing NICE guidelines: the manual](#).

## 6 **Funding**

- 7 The NGA was commissioned by NICE to develop this guideline.

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